

K  
71  
576  
7035  
(v.3)  
NH

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MEMOIR No. 38

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NORTH AMERICAN CORDILLERA

FORTY-NINTH PARALLEL

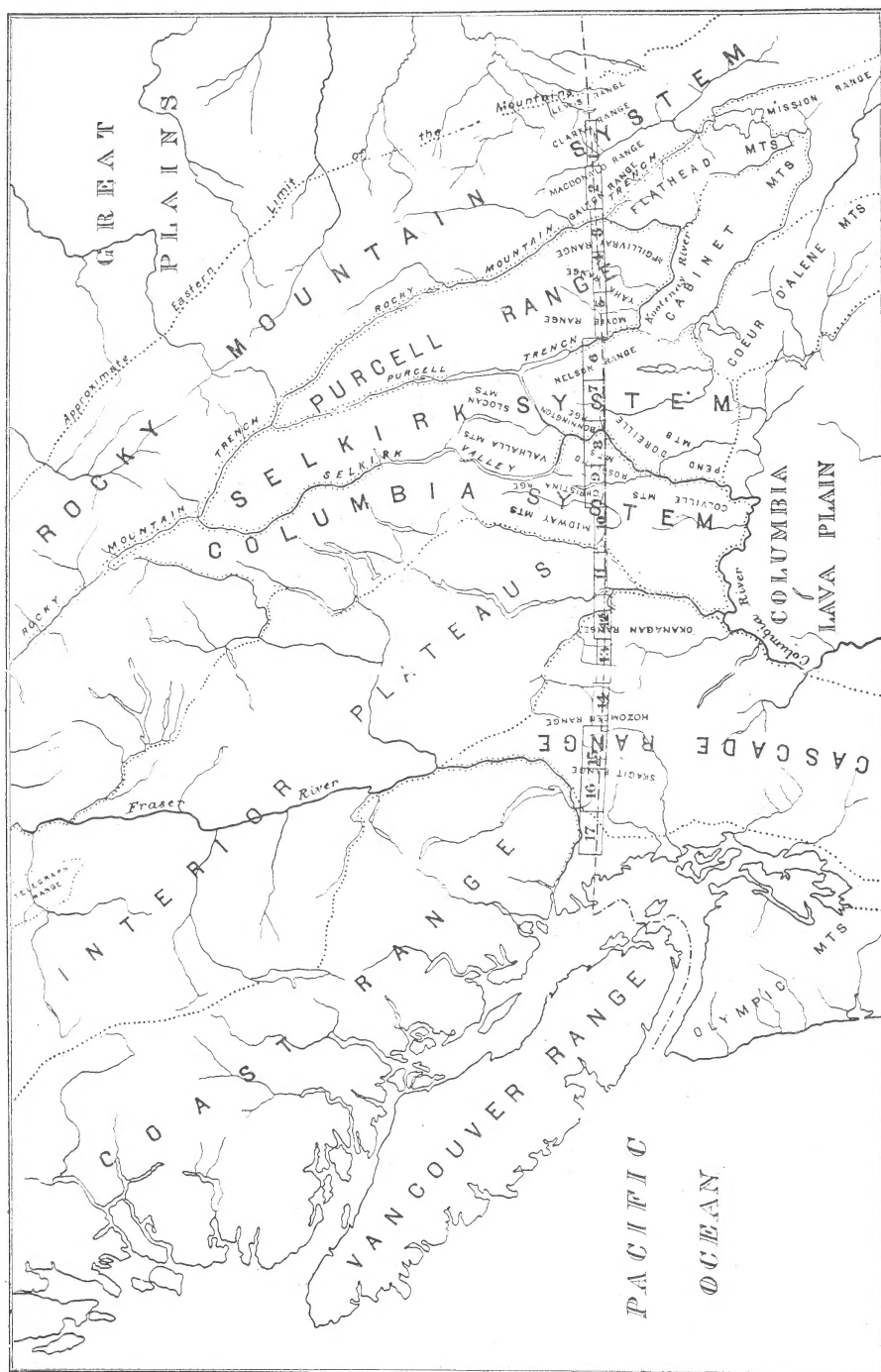
BY

REGINALD ALDWORTH DALY

PART III

GEOLOGICAL SURVEY  
DEPARTMENT OF MINES  
OTTAWA

1912



KEY SHOWING POSITION OF SHEETS.



QE  
71  
D15  
61/100  
51

Reginald Aldworth Daly

Geology of the North American cordillera at the  
forty-ninth parallel



Sheet	1—Clarke Range	Sheet	10—Midway Mountains,
"	2—Galton Range.	"	11—Osoyoos Lake.
"	3—Rocky Mountain Trench.	"	12—Kruger Mountain.
"	4—Yahk Range	"	13—Okanagan Range.
"	5—Moyie Range.	"	14—Hozomeen Range.
"	6—Purcell Trench.	"	15—Skagit Range.
"	7—Pend D'Oreille River.	"	16—Chilliwack River.
"	8—Rossland Mountains.	"	17—Sumas Lake.
"	9—Christina Lake.		

Plate 72—Views of the Rocky and Selkirk Ranges.  
" 73—Views of the Selkirk, Columbia and Cascade Ranges.  
—Erratum Sheet.

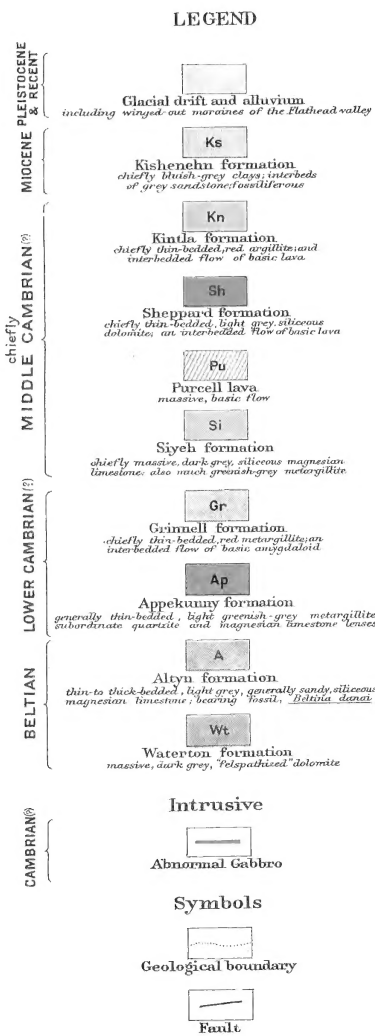




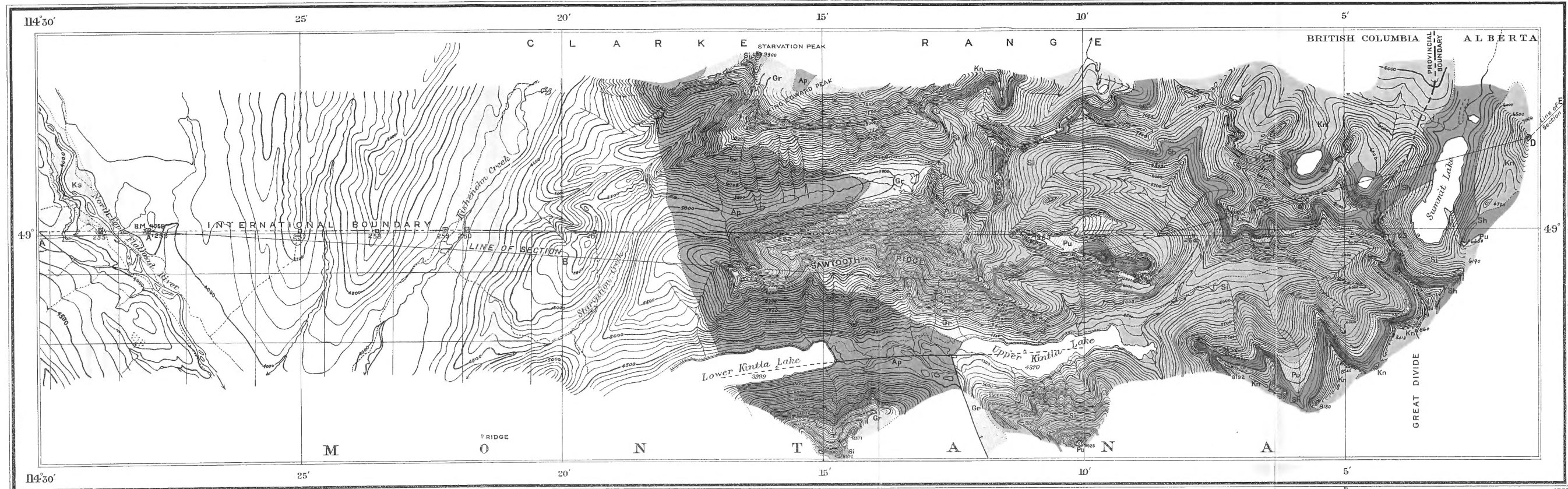
ERRATA

Boundary Monument	255 should read 261
"	256 " " 262
"	257 " " 263
"	258 " " 264
"	259 " " 265
"	260 " " 266
"	261 " " 267
"	262 " " 268
"	269 is 0.94 miles west of Mon. 270
"	263 should read 270
"	264 " " 271
"	265 " " 272
"	273 is 1.16 miles east of Mon. 272

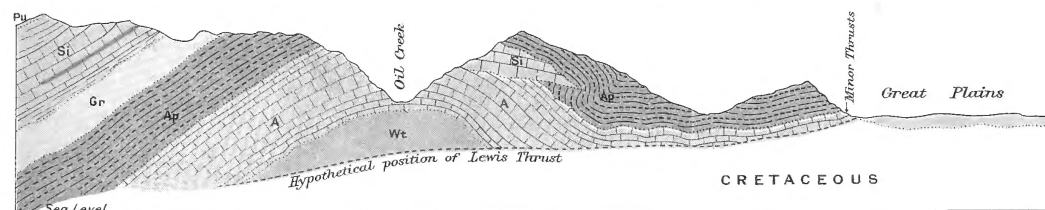
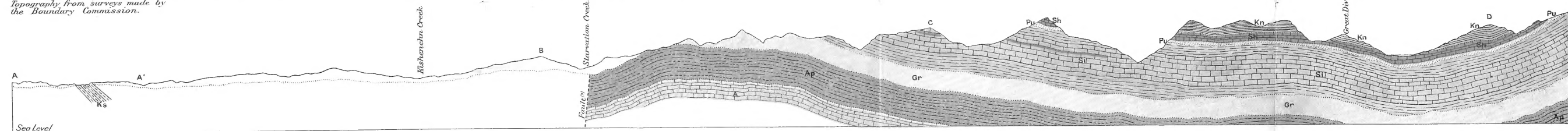




Note. Localities of chemically analyzed rocks, shown thus, + 1306

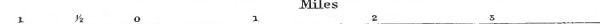


Topography from surveys made by the Boundary Commission.



Sections along line A-A'BCDEF  
**GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A. Daly.**

Scale: 62500 = 0.9864 Statute Miles to 1 inch



Contour interval, 100 feet

MAP 74A  
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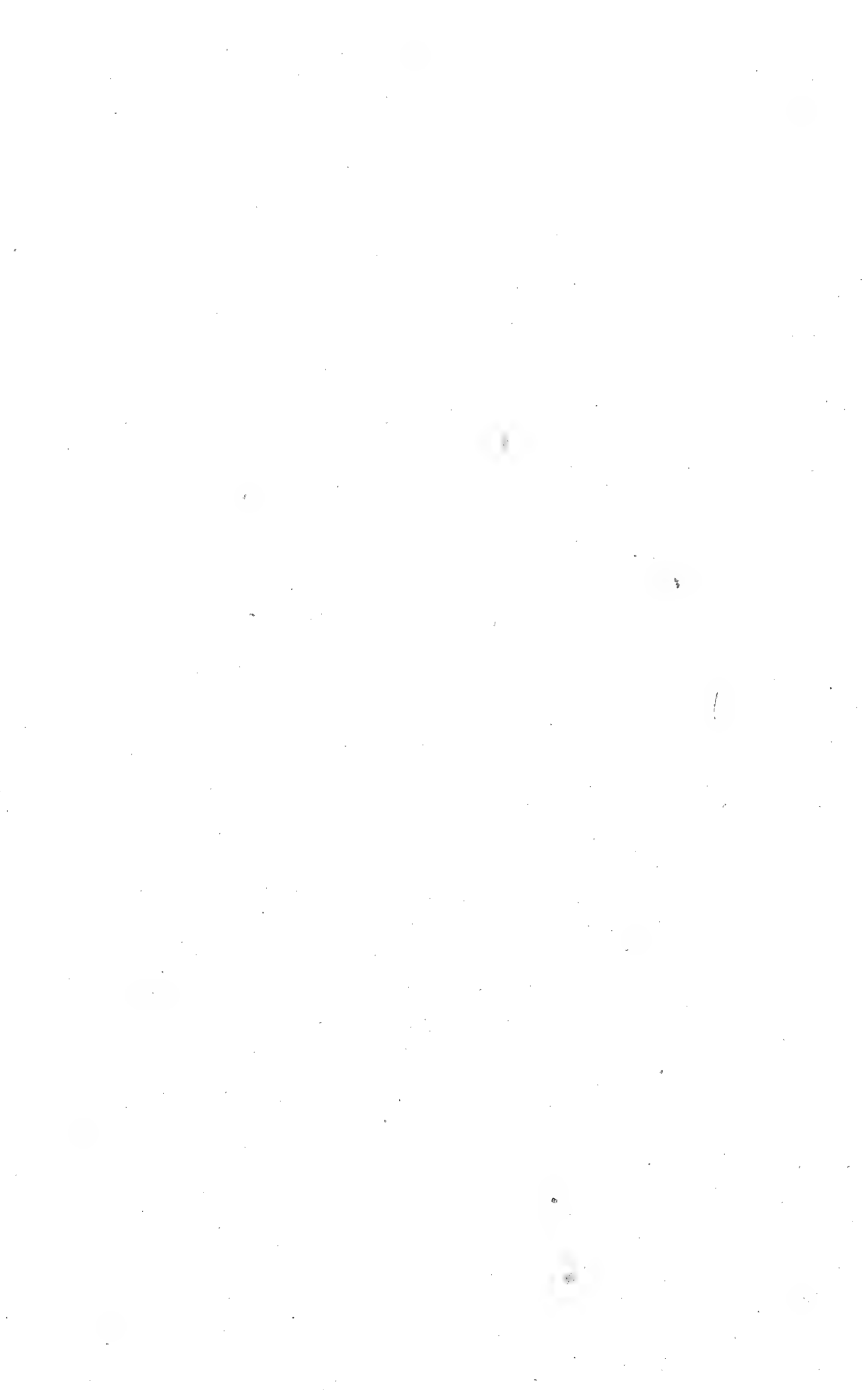
ERRATA

Boundary Monument	245 should read 248
"	246 "
"	247 "
"	248 "
"	249 is 1.35 miles east of Mon. 251
"	249 should read 253
"	250 "
"	251 "
"	252 "
"	257 is 2.59 miles east of Mon. 256
"	253 should read 258
"	259 is 2.14 miles east of Mon. 258
"	254 should read 260









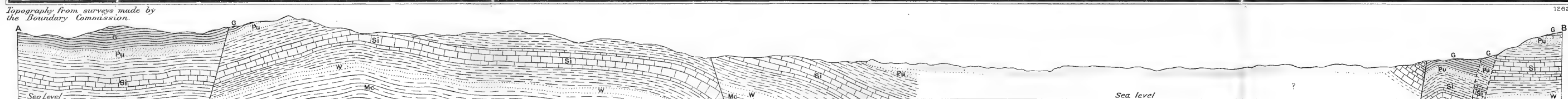
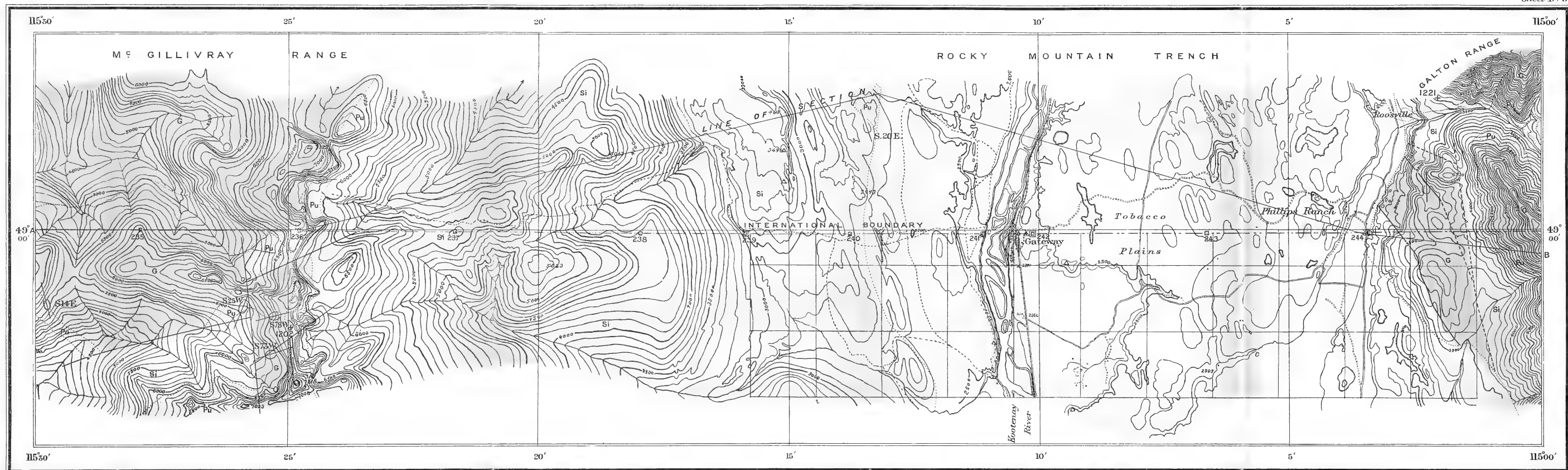
ERRATA

Boundary Monument	235 should read	237
"	"	236
"	"	237
"	"	238
"	"	239
"	"	240
"	"	241
"	"	242
"	"	243
"	"	244
"	"	245
"	"	246
"	"	247

244 is 0.22 miles west of Mon. 245  
242 should read 245





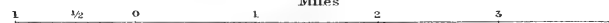


Section along line A B

# GEOLOGY OF THE FORTY-NINTH PARALLEL. By R.A. Daly.

Scale:  $\frac{1}{62500} = 0.9864$  Statute Miles to 1 Inch

Miles



Contour interval, 100 feet

## LEGEND

Glacial drift and alluvium

Limestone and quartzite  
massive, limestone fossiliferous

G  
Gateway formation  
chiefly thin-bedded, siliceous metagillite,  
some dolomite at base

Pu  
Purcell lava  
massive, basic flows

Si  
Siych formation  
thin-to-thick bedded, greenish grey metagillite,  
with massive, siliceous, magnesian limestone

W  
Wigwam formation  
thin to thick bedded, red sandstone  
and metagillite

Mc  
MacDonald formation  
thin-to-thick bedded, gray metagillite

## Symbols

Geological boundary

Fault

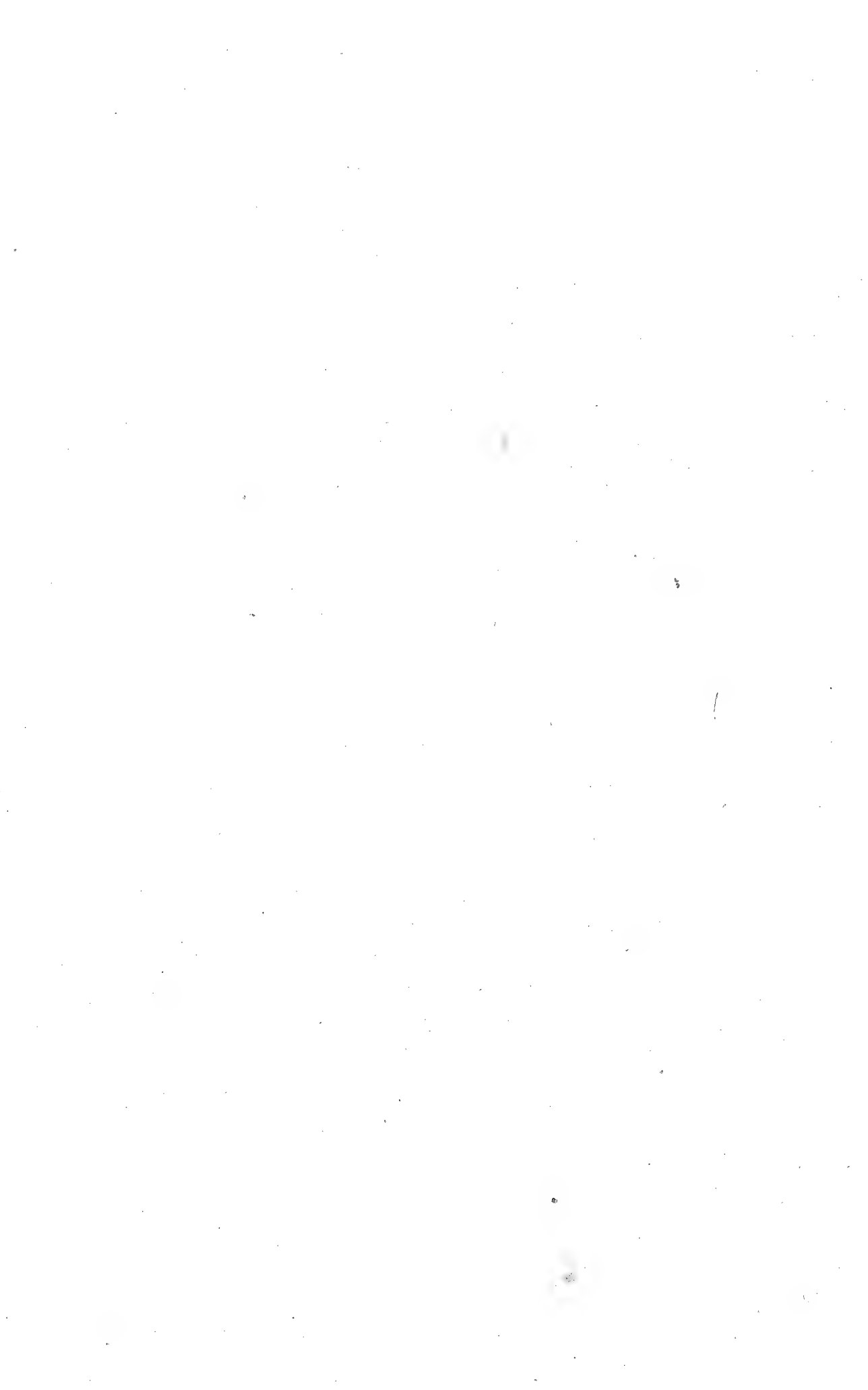
Glacial striae

Note. Localities of chemically analyzed  
rocks, shown thus, 41202

Topography from surveys made by  
the Boundary Commission.

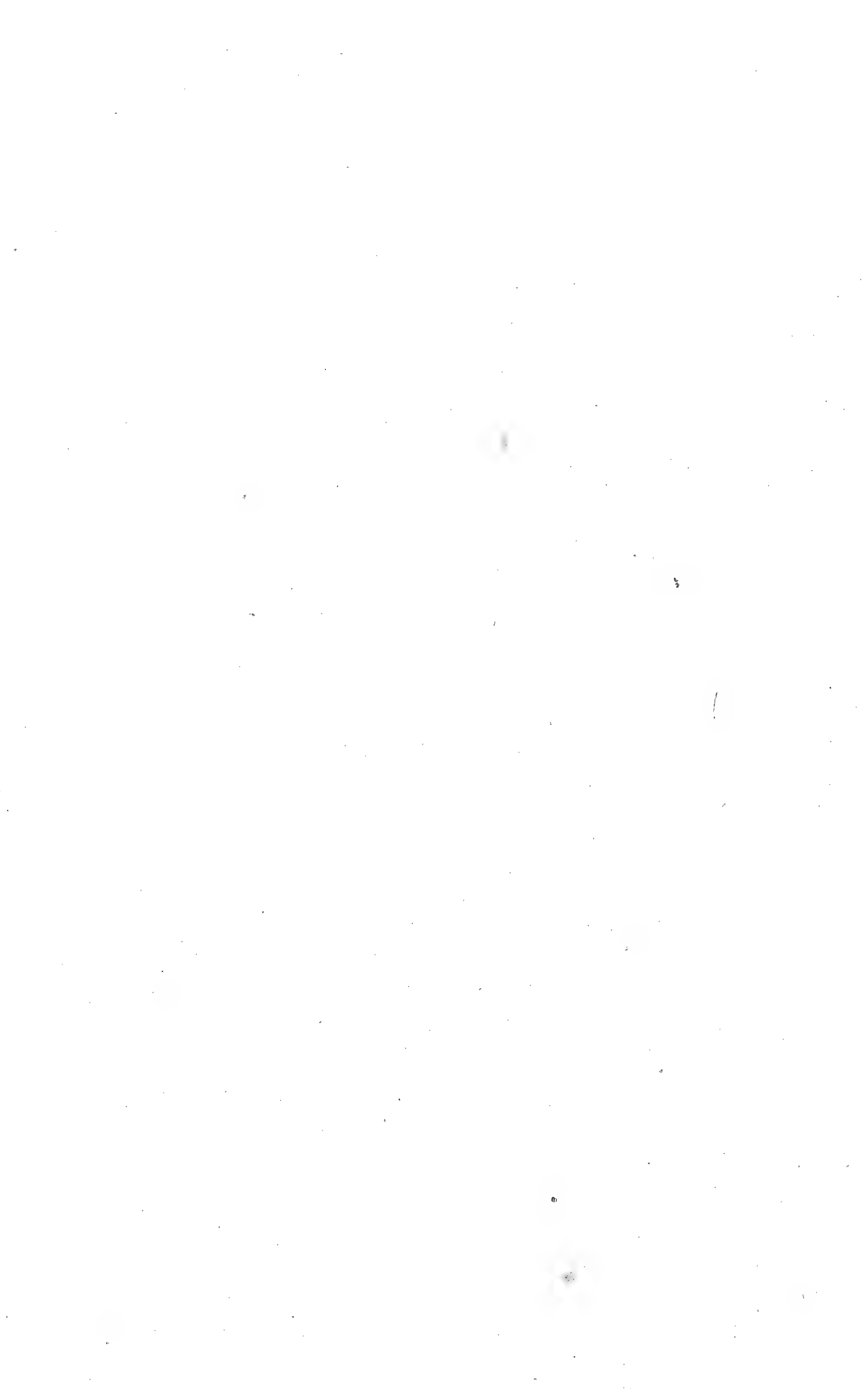
MAP 76A

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ERRATA			
Boundary Monument	221	should read	223
"	"	222	" 224
"	"	223	" 225
"	"	224	" 226
"	"	225	" 227
"	"	226	" 228
"	"	227	" 229
"	"	228	" 230
"	"	229	" 231
"	"	230	" 232
"	"	231	" 233
"	"	232	" 234
"	"	233	" 235
"	"	234	" 236

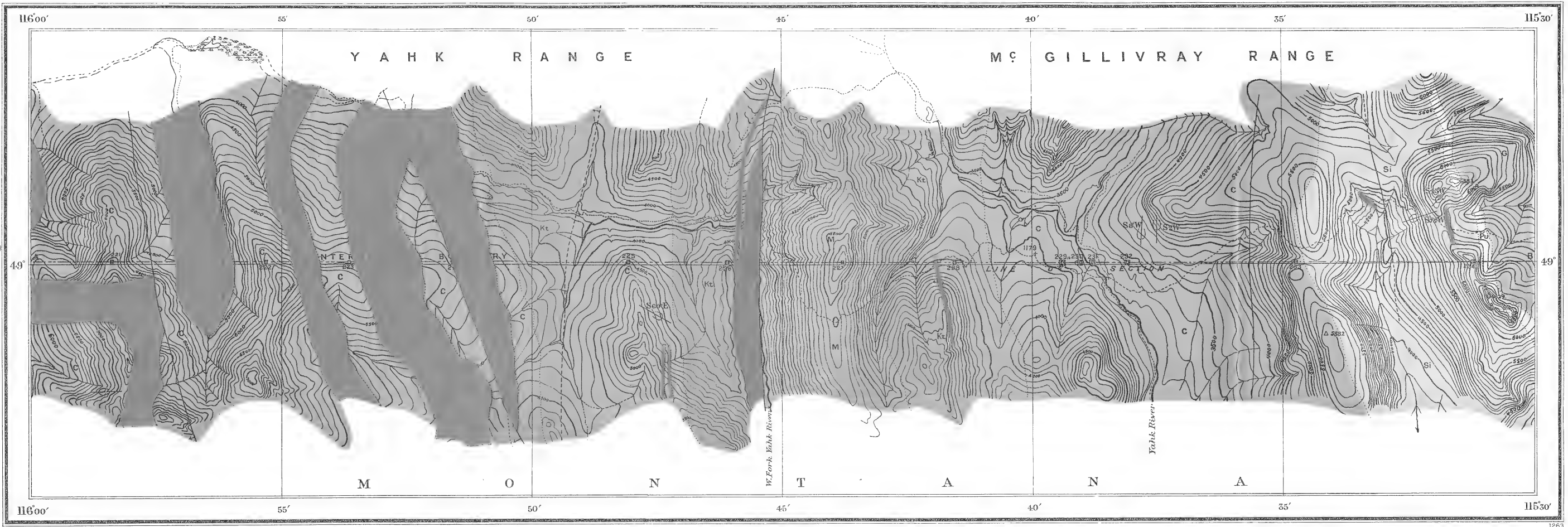


Chiefly  
MIDDLE CAMBRIAN (?)  
  
LOWER  
CAMBRIAN & BELTIAN CAMBRIAN (?)

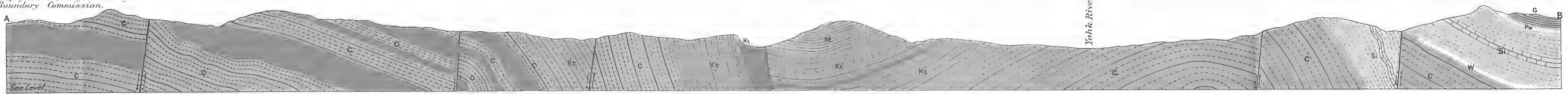
LEGEND

- M**  
Moyie formation  
*thin to thick-bedded shales, metargillites and quartzites; white, grey, blackish, greenish & purplish*
- G**  
Gateway formation  
*chiefly thin-bedded, siliceous metargillites; some dolomite at base (Equivalent of lower part of Moyie formation)*
- Pu**  
Purcell lava  
*massive basic flows*
- Kt**  
Kitchener formation  
*thin to thick-bedded, greenish-grey quartzite and metargillite; somewhat dolomitic in places*
- Si**  
Siyl formation  
*thin to thick-bedded, greenish-grey metargillite with massive, siliceous, magnesian limestone (Equivalent to upper Kitchener formation)*
- W**  
Wigwam formation  
*thin to thick-bedded, red sandstone and metargillite (Equivalent of lower part of Kitchener formation)*
- C**  
Creston formation  
*generally thick-bedded, grey quartzite and metargillite; sometimes dolomitic*
- Intrusive**  
Abnormal hornblende gabbro
- Symbols**  
Geological boundary  
Fault  
Glacial striae

Note. Localities of chemically analyzed rocks, shown thus, + 1164



Topography from surveys made by the Boundary Commission.



GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A.Daly.

Scale:  $\frac{1}{82500}$  - 0.9864 Statute Miles to 1 inch



Contour interval, 100 feet

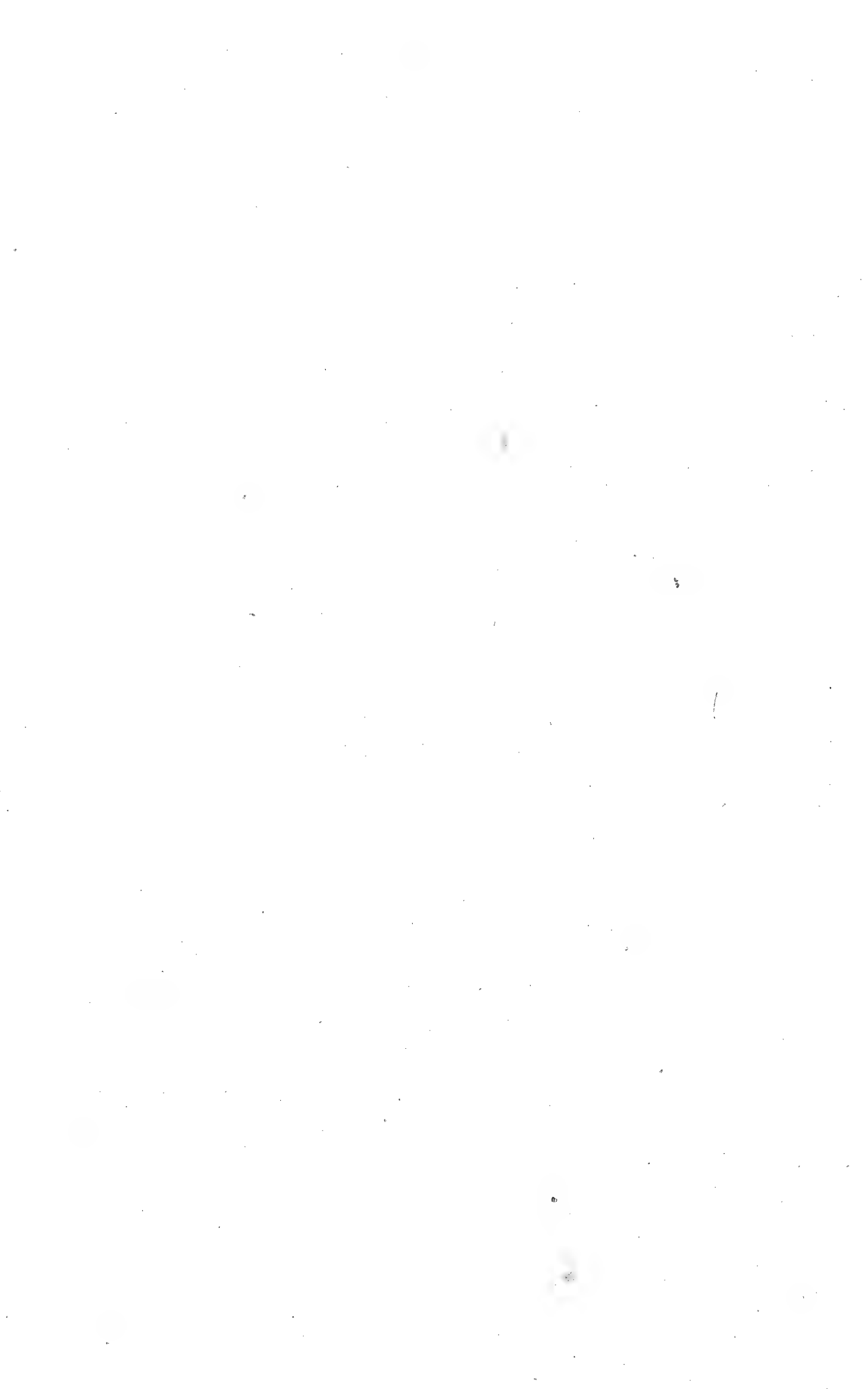
MAP 77 A

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ERRATA

Boundary Monument	207	is 2.72 miles west of Mon. 208
"	"	207 should read 208
"	"	208 " " 209
"	"	209 " " 210
"	"	210 " " 211
"	"	211 " " 212
"	"	212 " " 213
"	"	213 " " 214
"	"	214 " " 215
"	"	215 " " 216
"	"	216 " " 217
"	"	218 is 0.02 miles east of Mon. 217
"	"	217 should read 219
"	"	218 " " 220
"	"	219 " " 221
"	"	220 " " 222





chiefly  
L CAMBRIAN MIDDLE & BELTIAN  
MIDDLE CAMBRIAN  
CAMBRIAN RECENT

**LEGEND**

Alluvium

**M**  
Moyle formation  
*thin to thick-bedded, shales, metagillite and quartzite, white, grey, blackish, greenish & purplish*

**Kt**  
Kitcheners formation  
*thin to thick-bedded, greenish-grey quartzite and interbedded metagillite*

**C**  
Creston formation  
*massive to thin-bedded, grey quartzite and subordinate metagillite*

**Intrusive**  
Abnormal hornblende gabbro

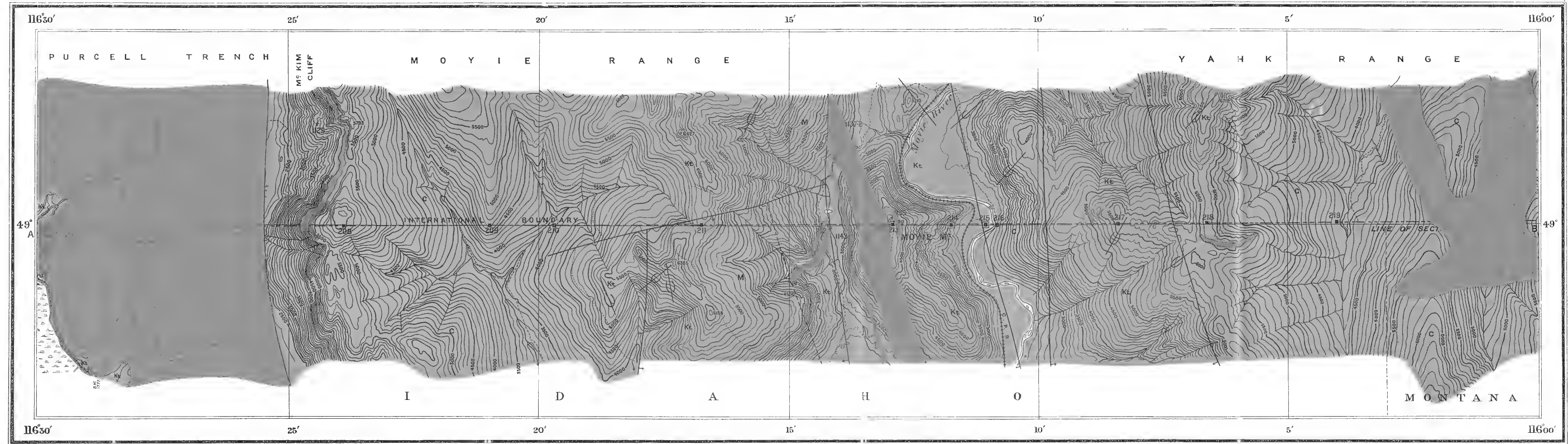
**Symbols**

Geological boundary

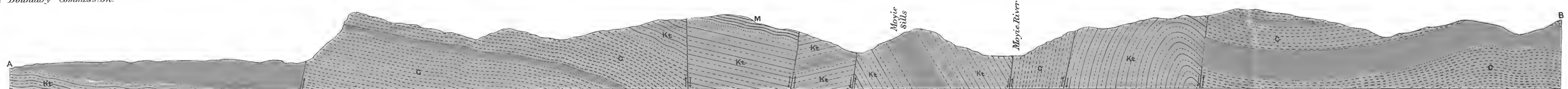
Fault

Glacial striae

Note. Localities of chemically analyzed rocks, shown thus, +1134



Topography from surveys made by the Boundary Commission.



Section along line A B  
GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A. Daly.

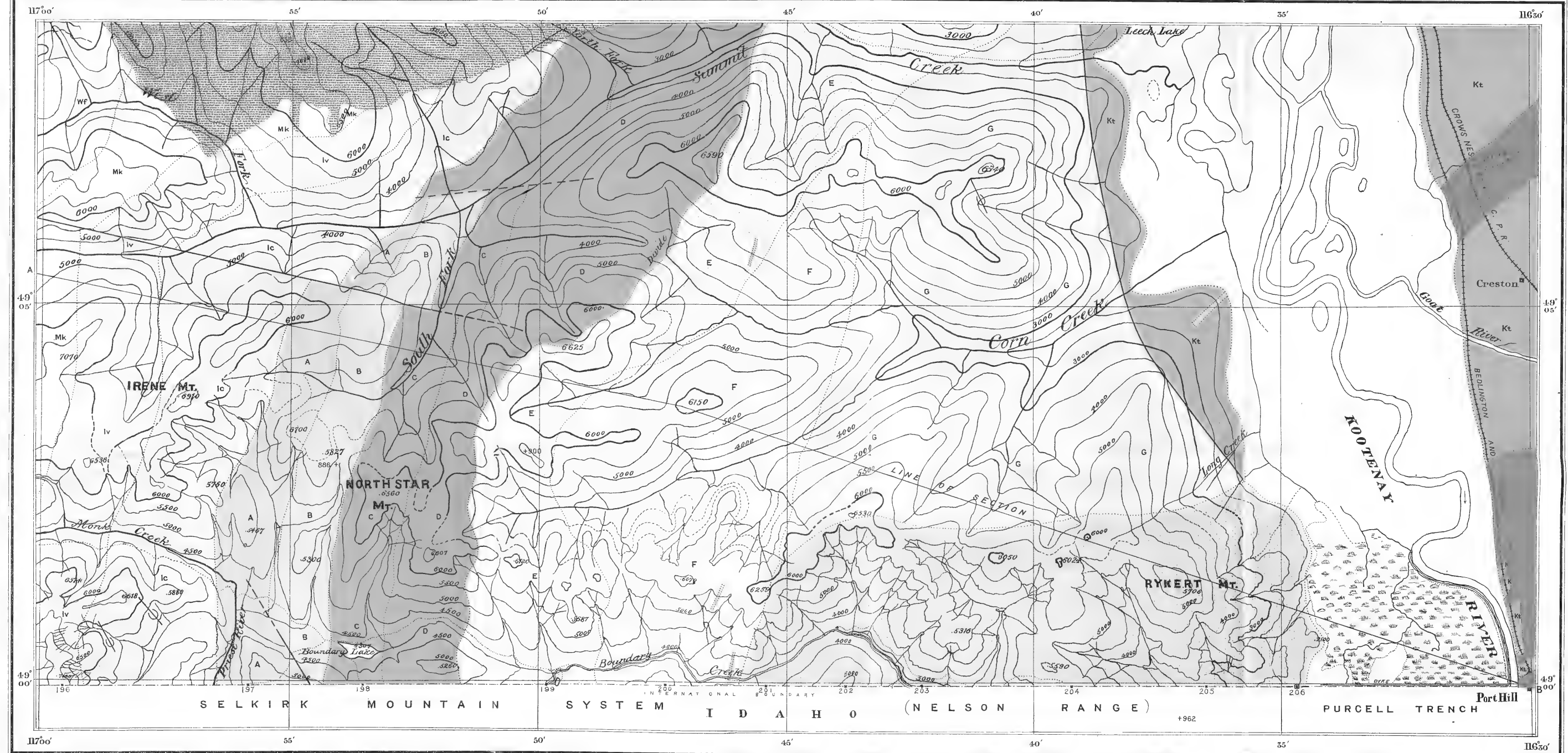
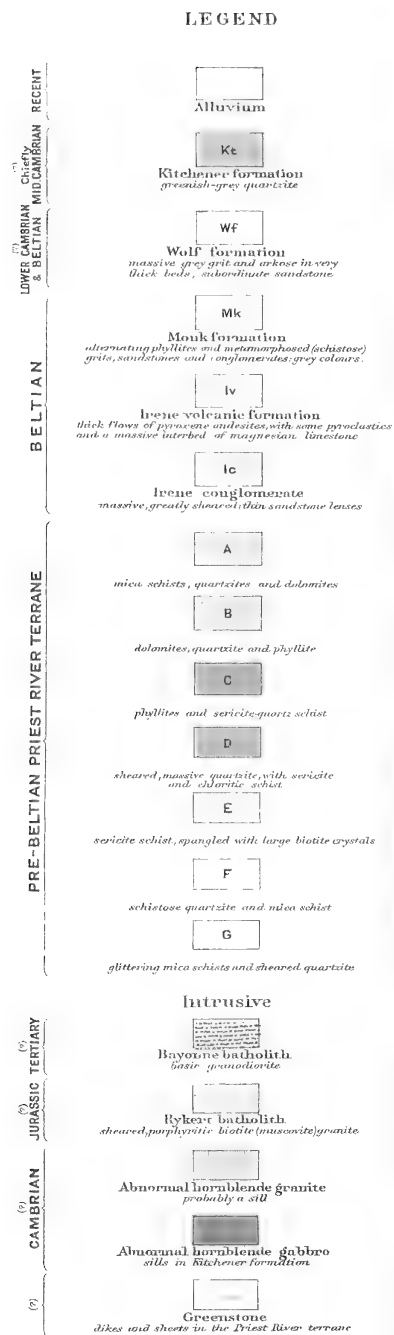


Contour interval, 100 Feet

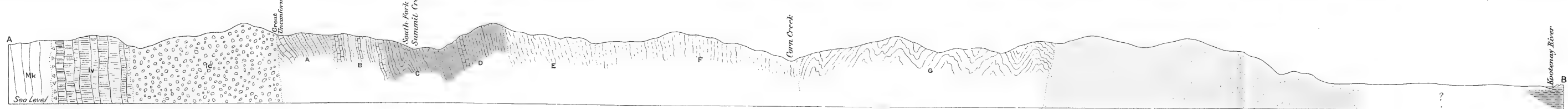








Topography from surveys made by the Boundary Commission.



# GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A. Daly.

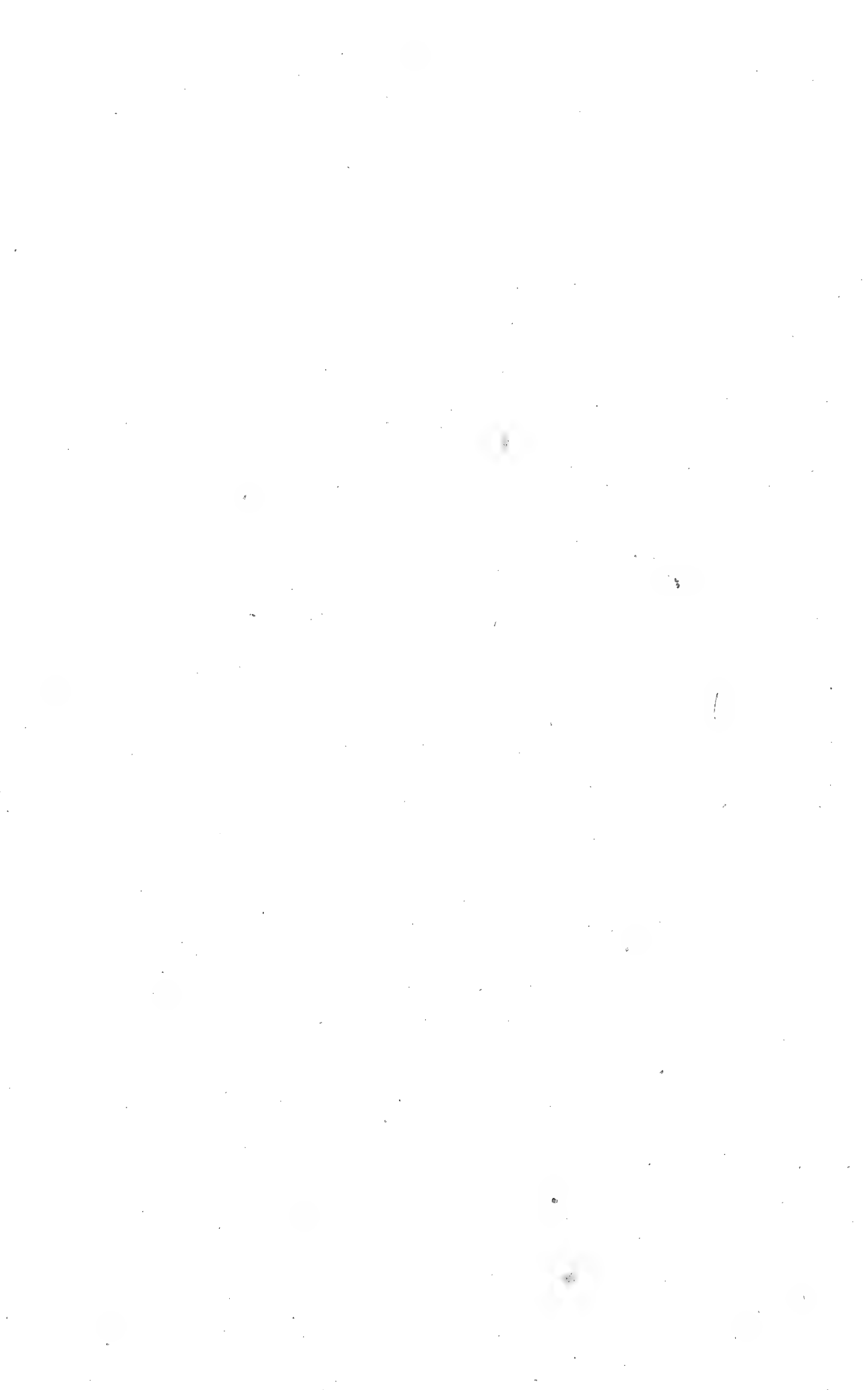
Scale: 62500 = 0.9864 Statute Miles to 1 inch



Contour interval, 500 feet.

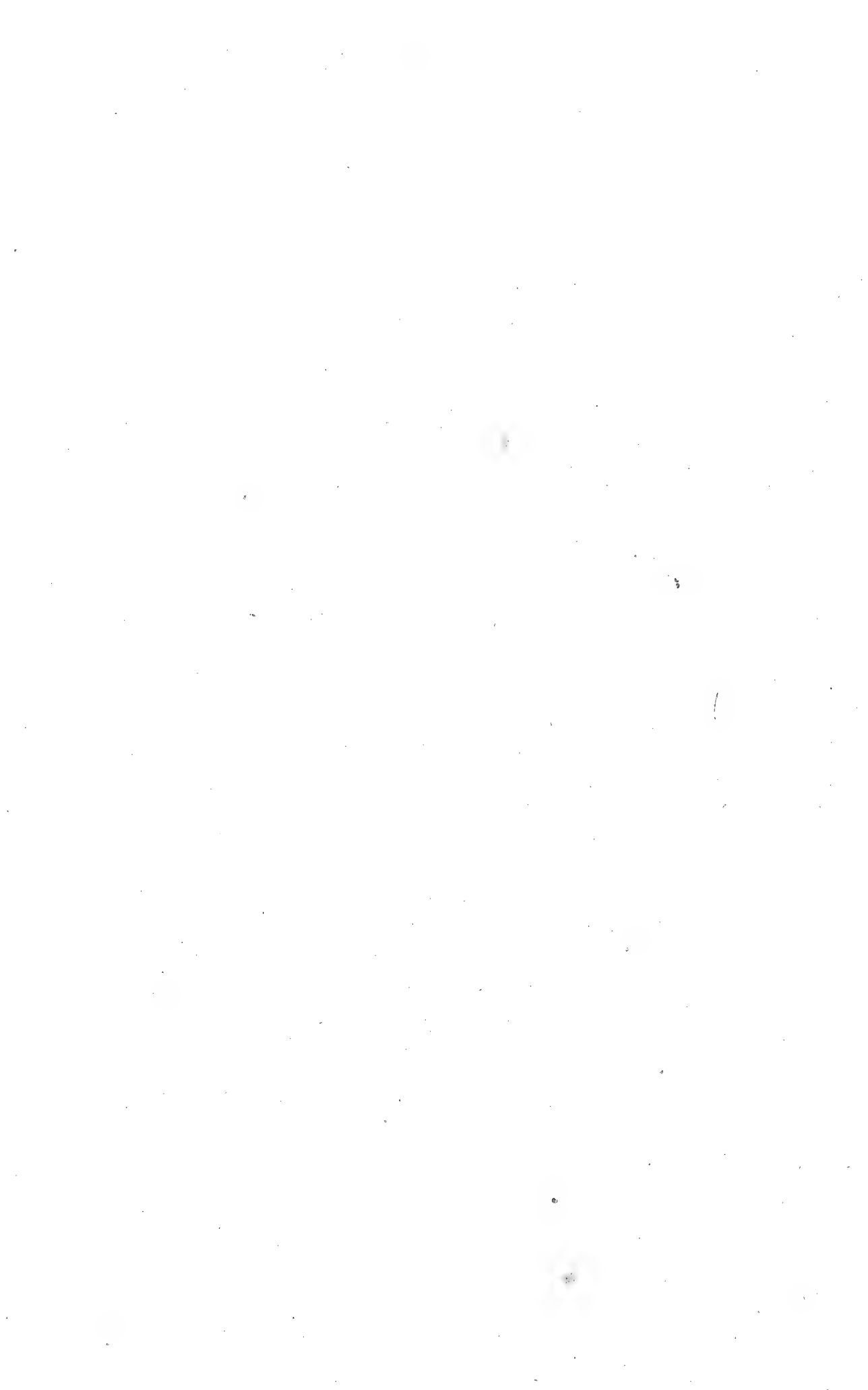
MAP 79A

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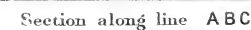




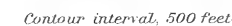


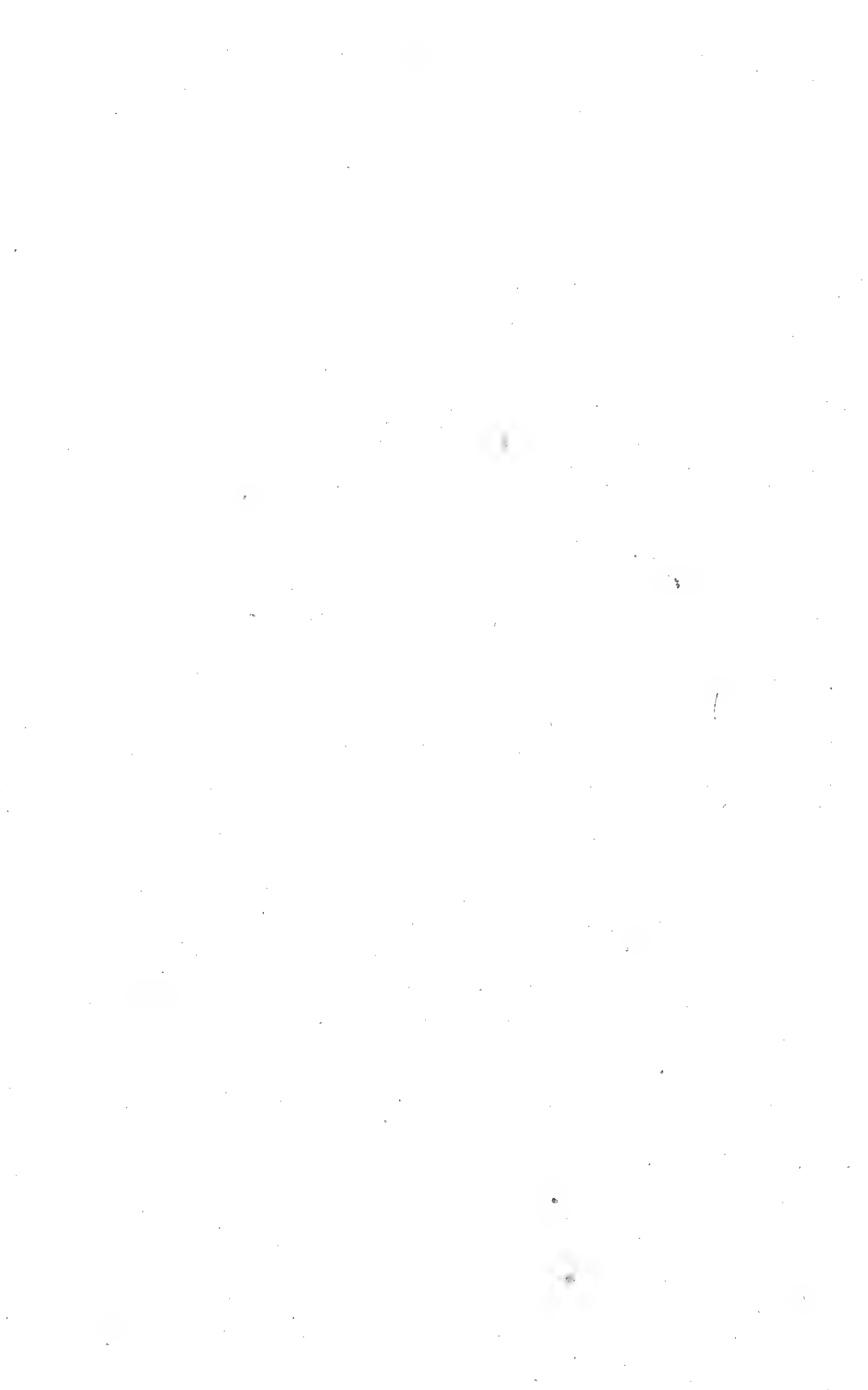


Note. Localities of chemically analyzed rocks, shown thus, + 666

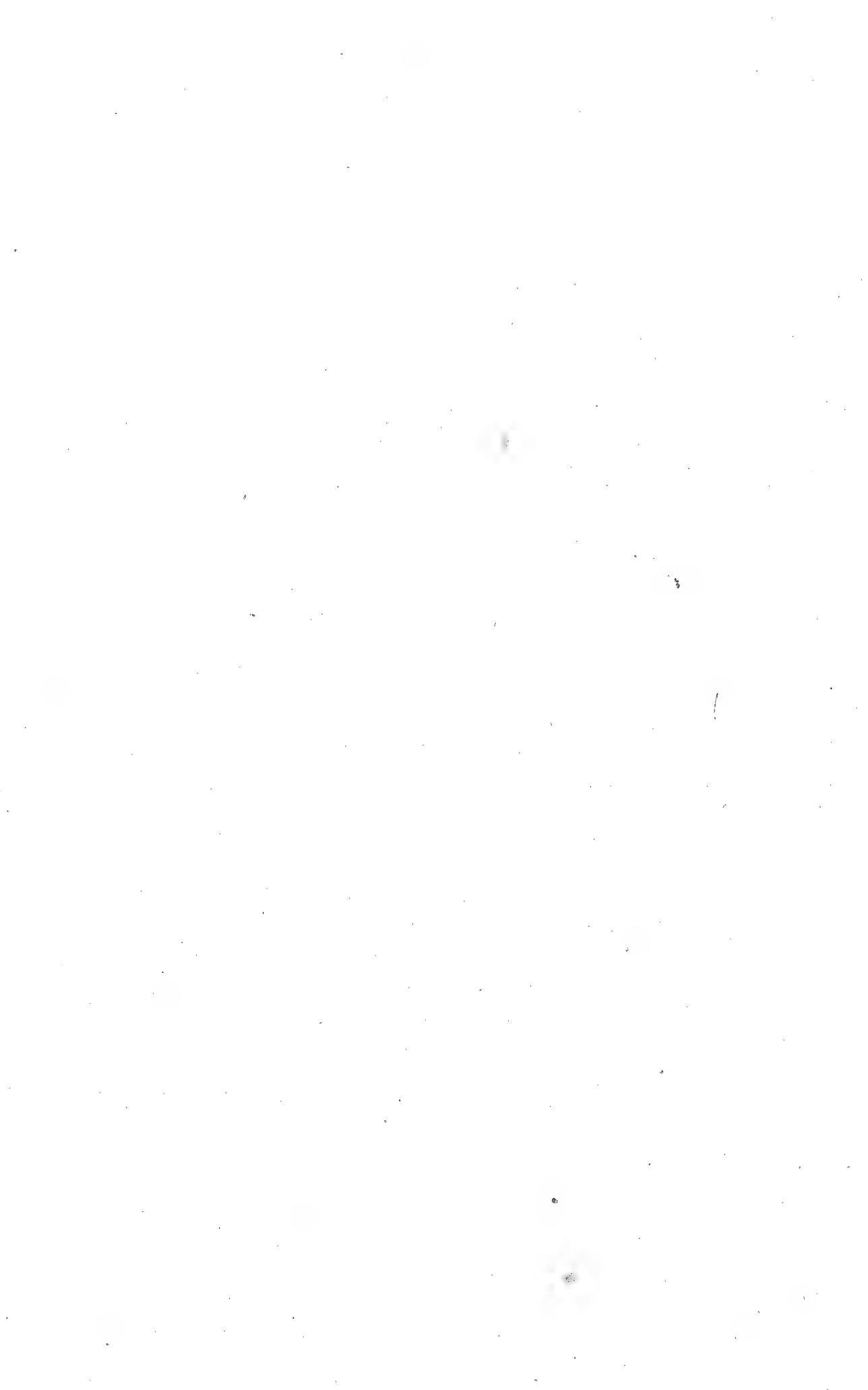


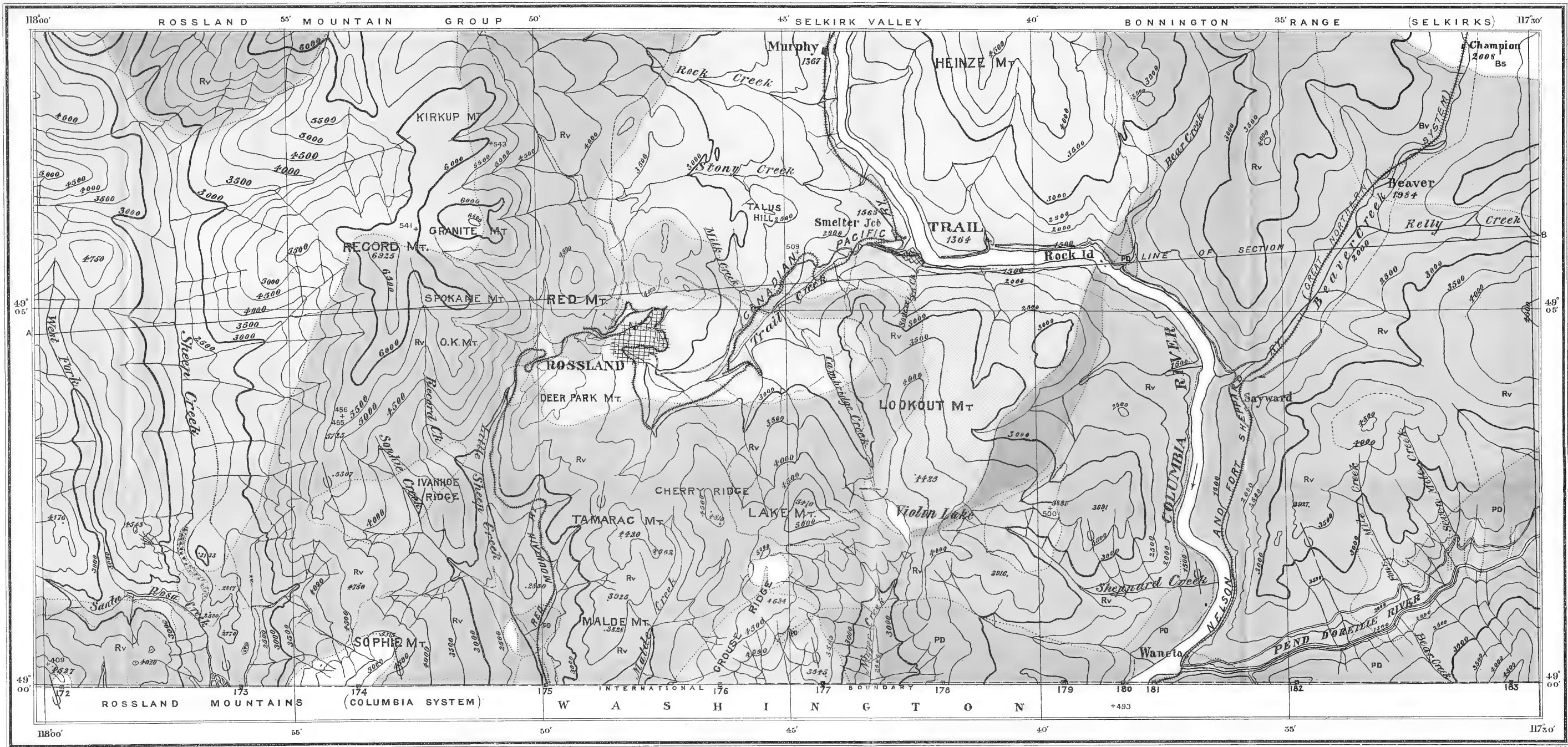
Scale:  $\frac{1}{62500} = 0.9864$  Statute Miles to 1 Inch











Note: Many minettes and other microlangprophyres cut the Pend D'Oreille schists in the Pend D'Oreille river gorge, as well as the older rocks in the Rossland mining camp. Numerous porphyry dikes syngenetic with the Rossland volcanics are not shown and epiphyseal dikes from batholiths and stocks are likewise not plotted. Localities of chemically analyzed rocks, shown thus, +409

Topography from surveys made by the Boundary Commission.

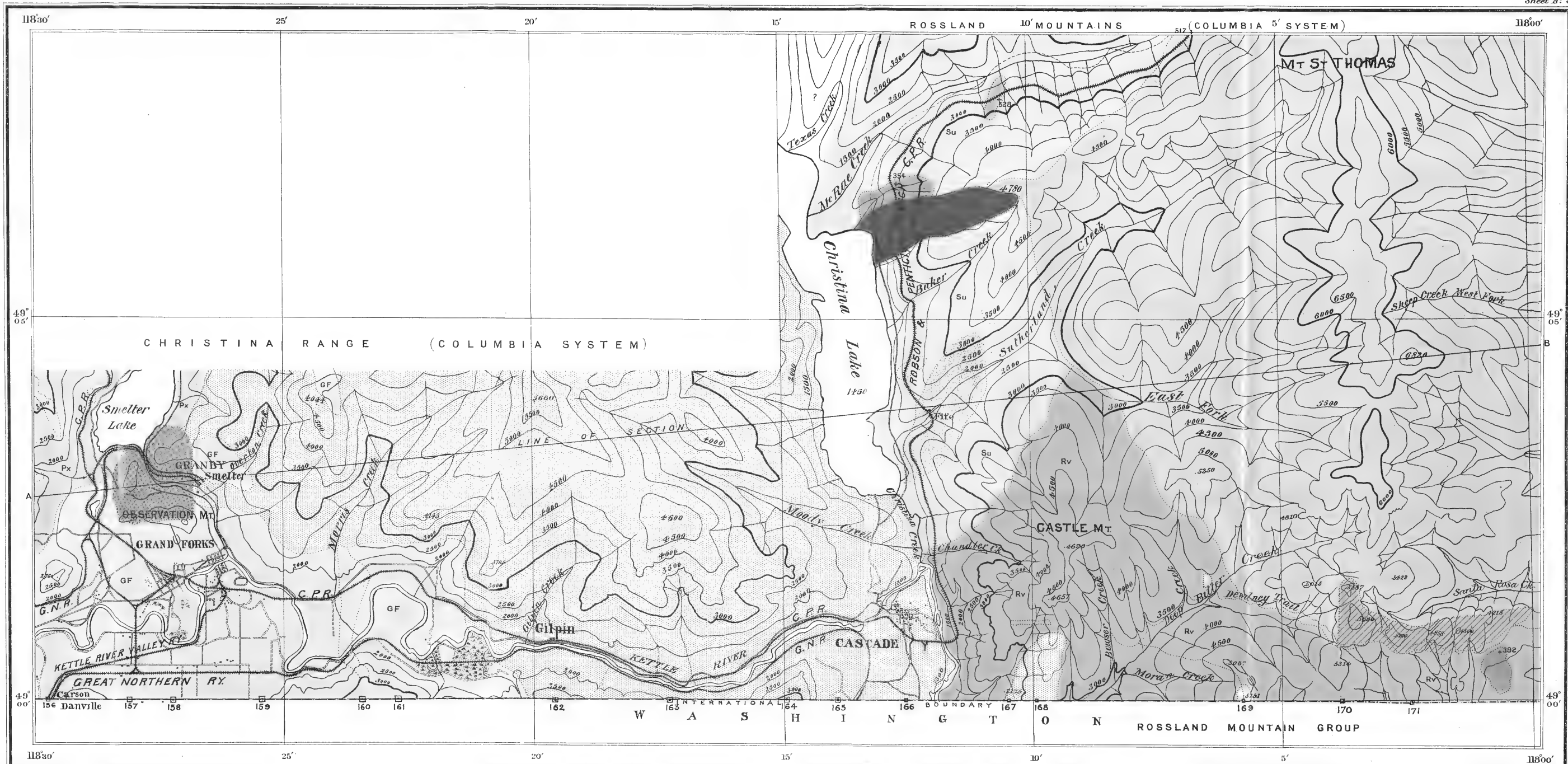
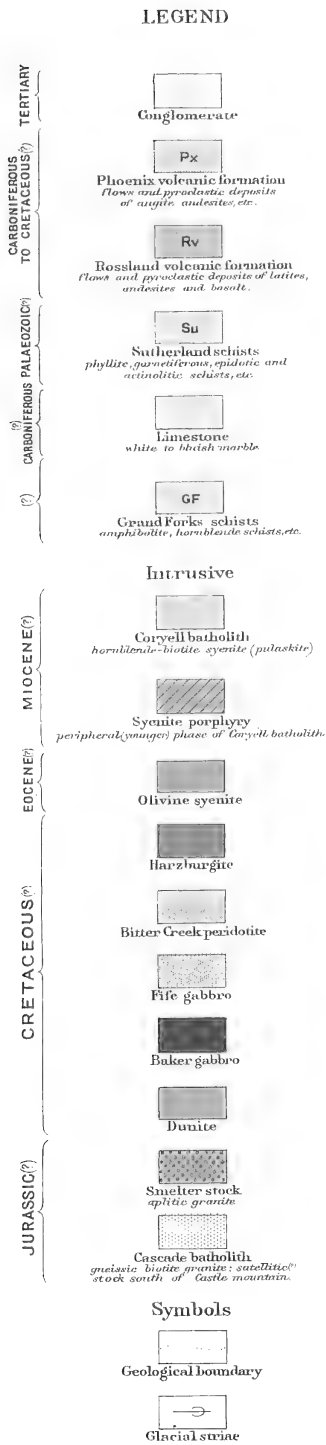




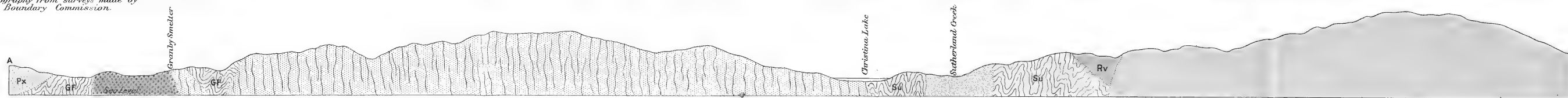
ERRATA

Boundary Monument	156 should read	155
"	157 "	" 156
"	158 "	" 157
"	159 "	" 158
"	160 "	" 159
"	161 "	" 160
"	162 "	" 161
"	163 "	" 162
"	164 "	" 163
"	165 "	" 164
"	165 is a few Yards east of the railway track near Laurier.	





Topography from surveys made by  
the Boundary Commission.



Note. Folded structure of Sutherland and Grand Forks  
schists, in section, merely diagrammatic.  
Many epiphyseal dikes from large intrusive masses  
not shown.  
Localities of chemically analyzed  
rocks, shown thus, + 517

Section along line AB  
**GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A. Daly.**

Scale: 62500 = 0.9864 Statute Miles to 1 Inch



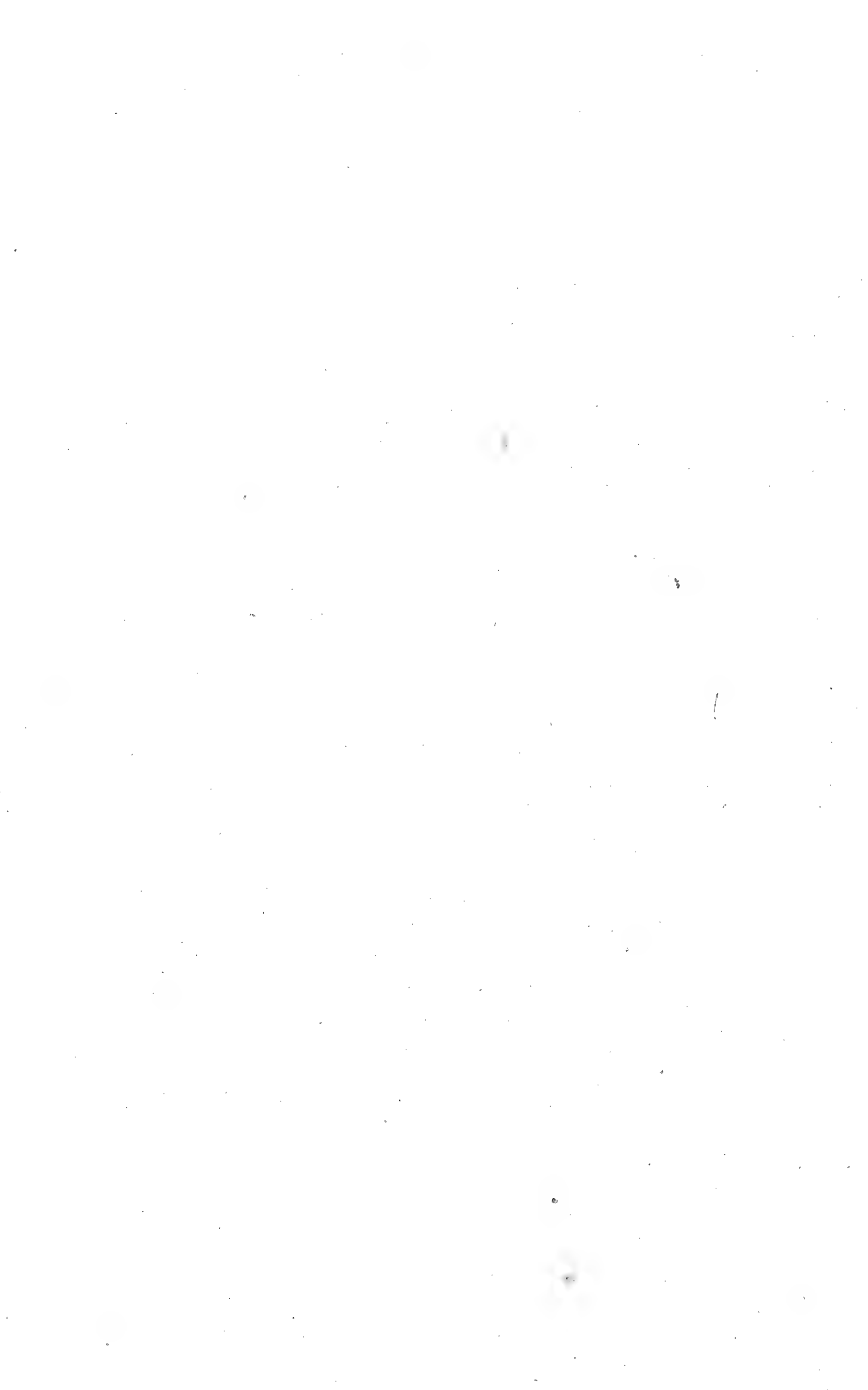
Contour interval, 500 feet

MAP 82A

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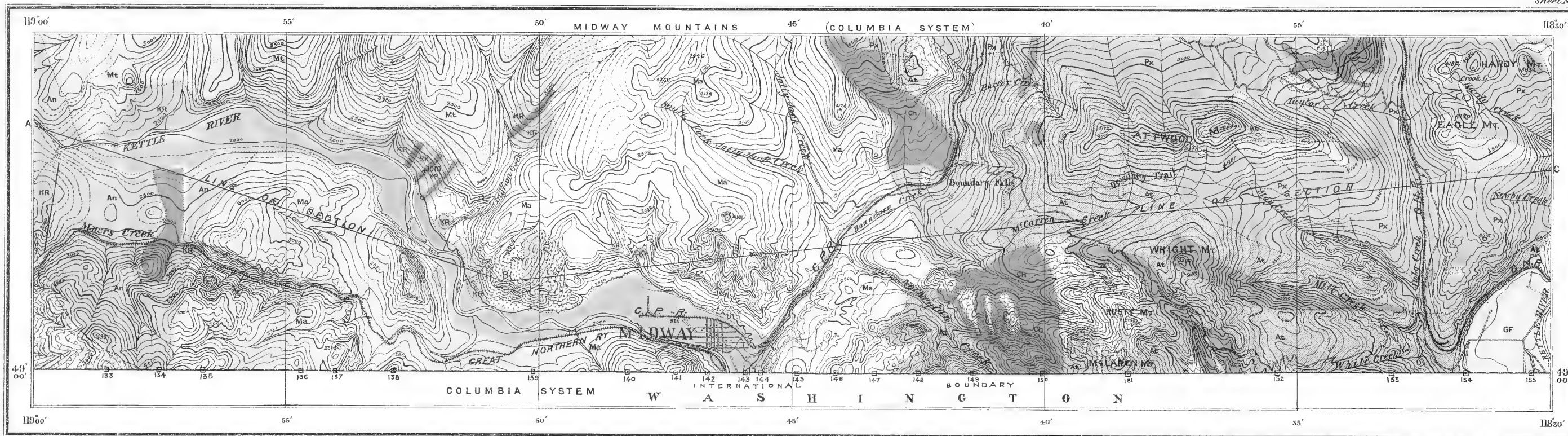


LEGEND

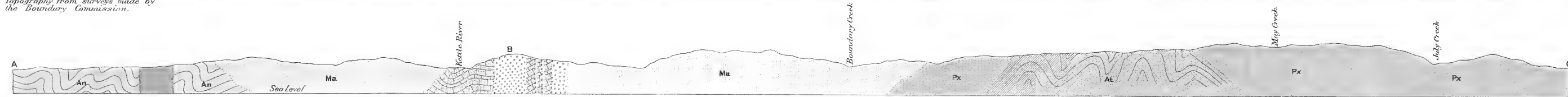
PLEISTOCENE & RECENT  
MIOCENE  
OLIGOCENE  
CARBONIFEROUS  
JURASSIC  
MIOCENE

- Alluvium and glacial drift
- Mt
- Midway volcanic group  
trachyte and andesitic rhyolite porphyry;  
flow and pyroclastic deposits
- Ma
- Midway volcanic group  
andesites and basalt; flows and pyroclastic  
deposits
- KR
- Kettle river formation  
sandstone, conglomerate, shale, arkose
- Px
- Phoenix volcanic formation  
flows and pyroclastic deposits of andesite, etc.
- At
- Attwood series  
argillite, quartzite, limestone
- An
- Anarlist series  
quartzite, phyllitic shales, gneiss, etc. with  
some limestone pods
- Limestone
- crystalline, bluish-grey to white
- Ch
- Chlorite and hornblende schist
- GF
- Grand Forks schist  
amphibolite, hornblende schists, etc.
- Intrusive
- Palaskite porphyry  
dikes and sills
- Rhomb - porphyry
- Porphyrite  
chert, dolomite, dikes and sills
- Granodiorite  
stocks, dikes, etc.
- Serpentine  
dikes, etc.
- Symbols
- Geological boundary
- Glacial striae

Note. Structures shown in schists and limestone merely  
diagrammatic. On account of the small scale,  
many dikes and intrusive sheets of porphyrites and  
porphyries, as well as granodiorite apophyses are  
not plotted. Similarly many dikes which are syenitic  
with the volcanics are not shown.  
Localities of chemically analyzed  
rocks, shown thus, +1010



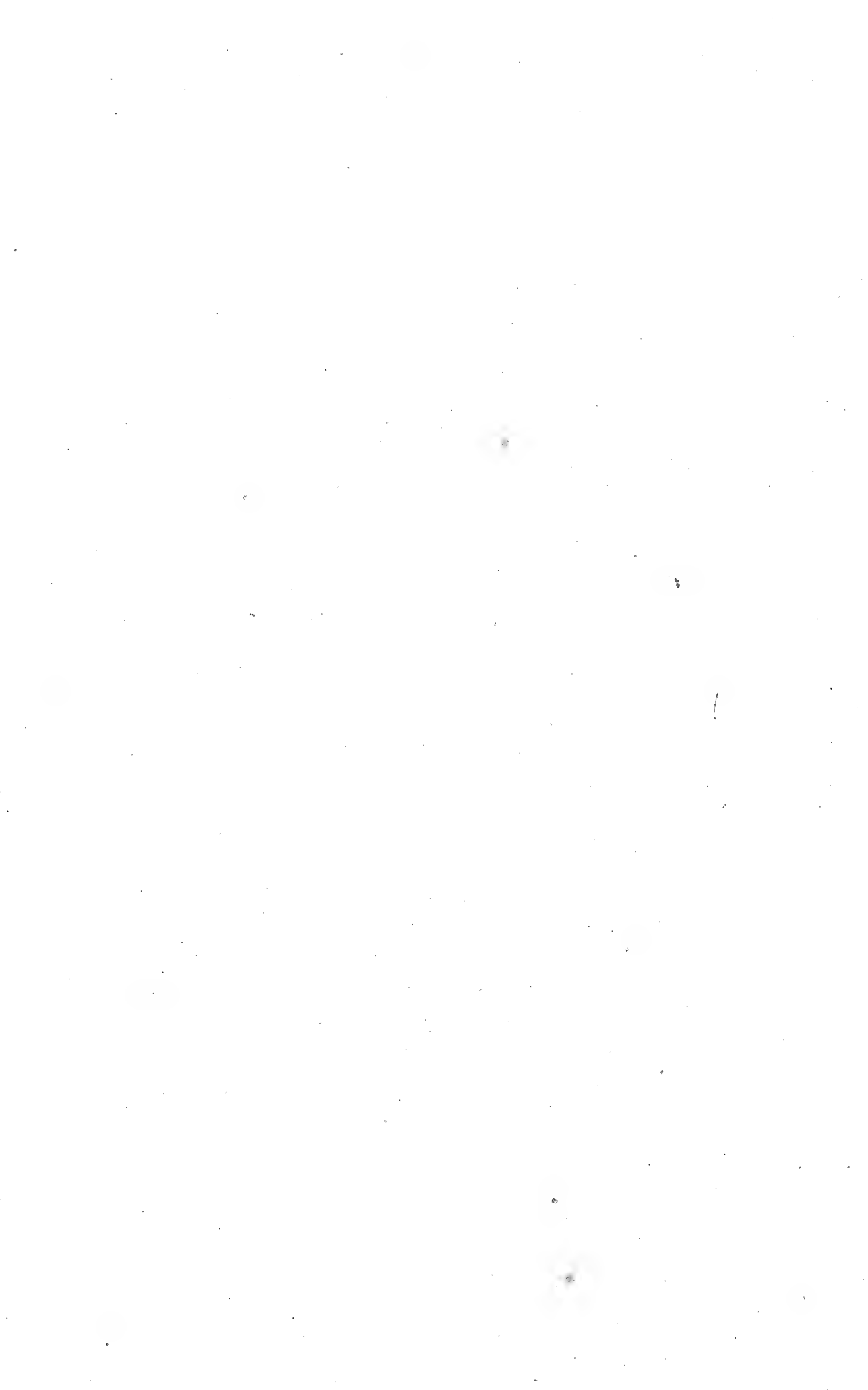
Topography from surveys made by  
the Boundary Commission.



Section along line A B C  
GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A. Daly.

Scale: 82500 - 09864 Statute Miles to 1 inch  
Miles

Contour interval, 100 feet.







**LEGEND**

**PLEISTOCENE & RECENT**  
Glacial drift and alluvium

**MIOCENE**  
Shackanite  
Flows (part of Midway volcanic group)

**OLIGOCENE**  
Extrusive rhyolite-porphry  
Flows (part of Midway volcanic group)

**UPPER CARBON-IFEROUS**  
KR  
Kettle river formation  
sandstone, conglomerate, shale, arkose

**PALEOZOIC**  
An  
Limestone of Anarchist series  
white to bluish-grey, crystalline

**MIOCENE**  
Intrusive  
Intrusive rhyolite-porphry  
conglomerate and dikes

**JURASSIC**  
Granodiorite

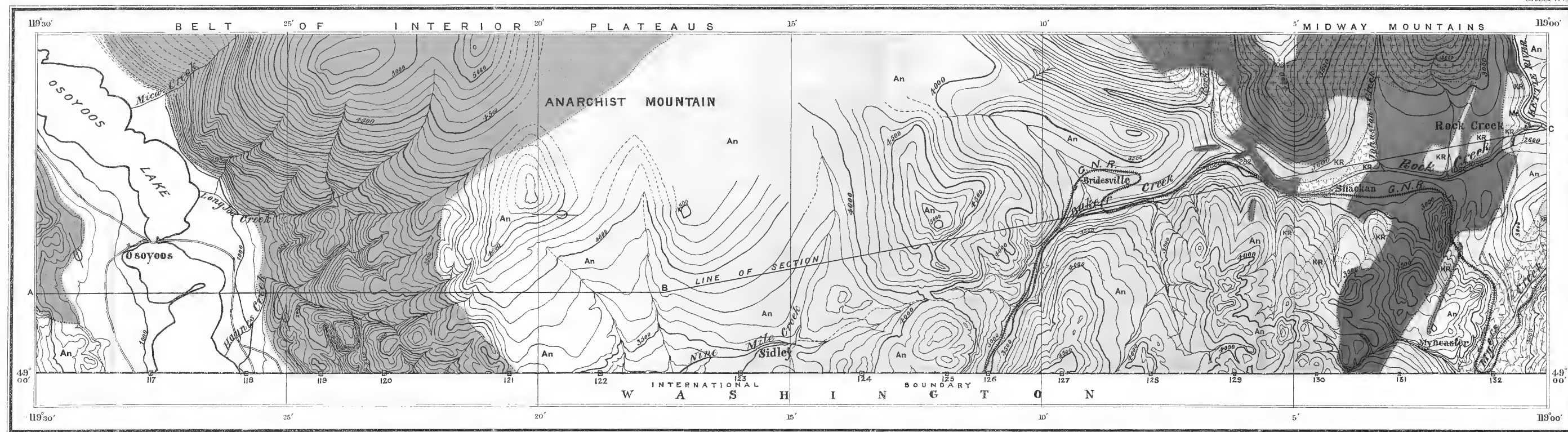
**LATE PALEOZOIC**  
Osyoos batholith  
gneissic derivative of granodiorite

Diorite and gabbro

Dunite

**Symbols**  
Geological boundary

Glacial striae



Topography from surveys made by the Boundary Commission.



**GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A. Daly.**

Scale: 62500—09864 Statute Miles to Inch  
Miles

Contour interval, 100 feet

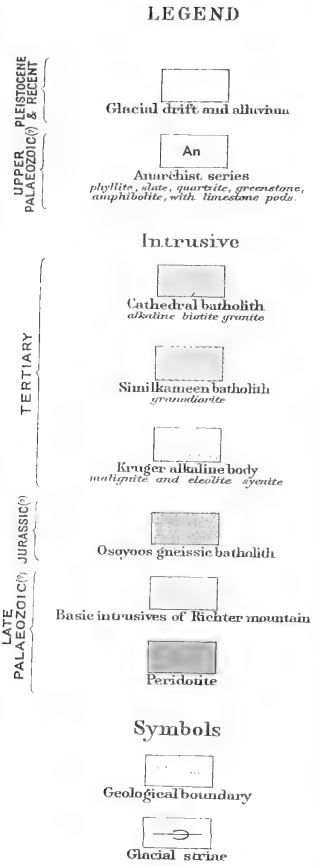
Note: Structures of Anarchist series shown in the section, merely diagrammatic. Localities of chemically analyzed rocks, shown thus, 4285



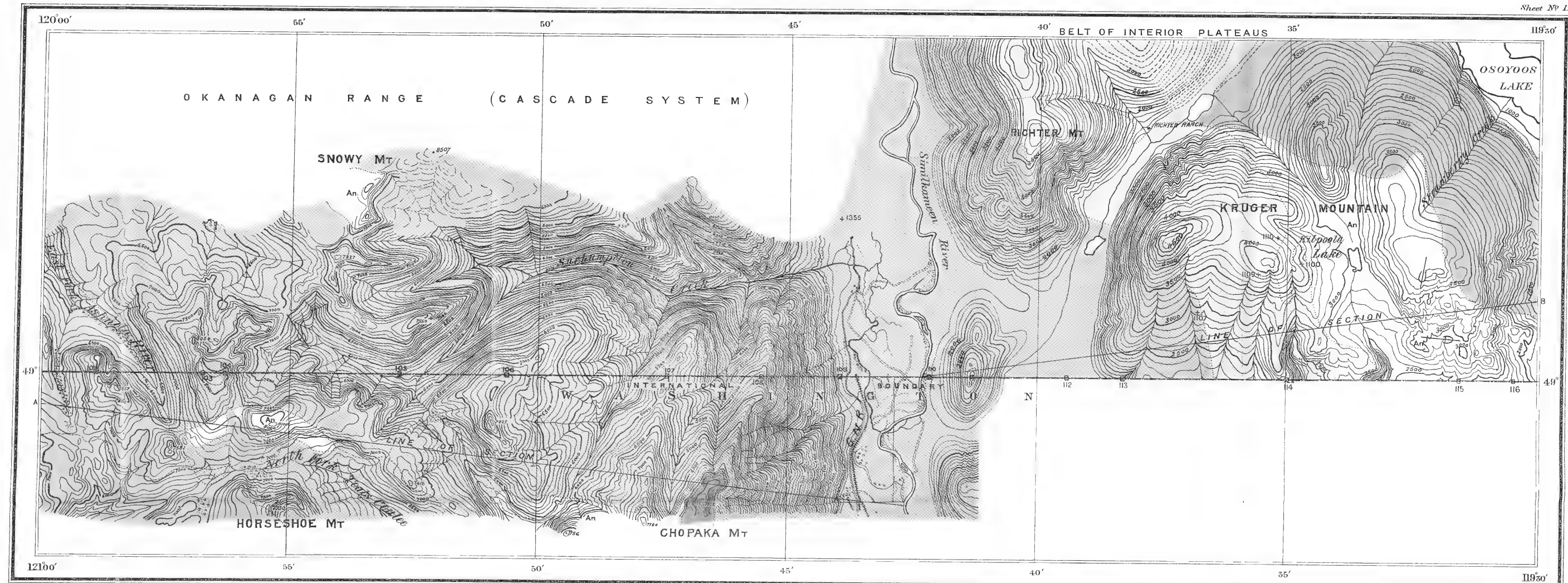




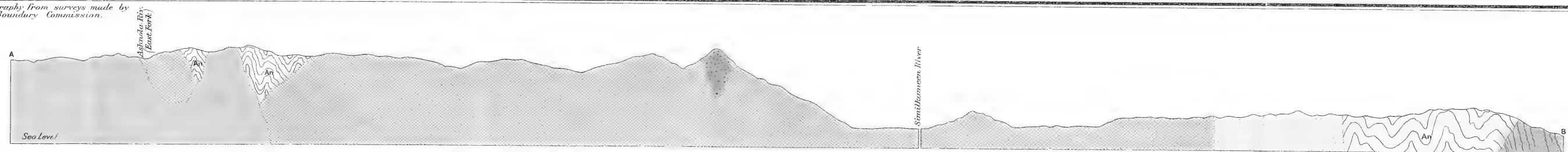




Note. Structure of Anarchist series, shown  
in section, merely diagrammatic.  
Localities of chemically analyzed  
rocks, shown thus: +1100



Topography from surveys made by  
the Boundary Commission.



Section along line A B  
GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A. Daly.

Scale: 62500 = 0.9864 Statute Miles to 1 inch



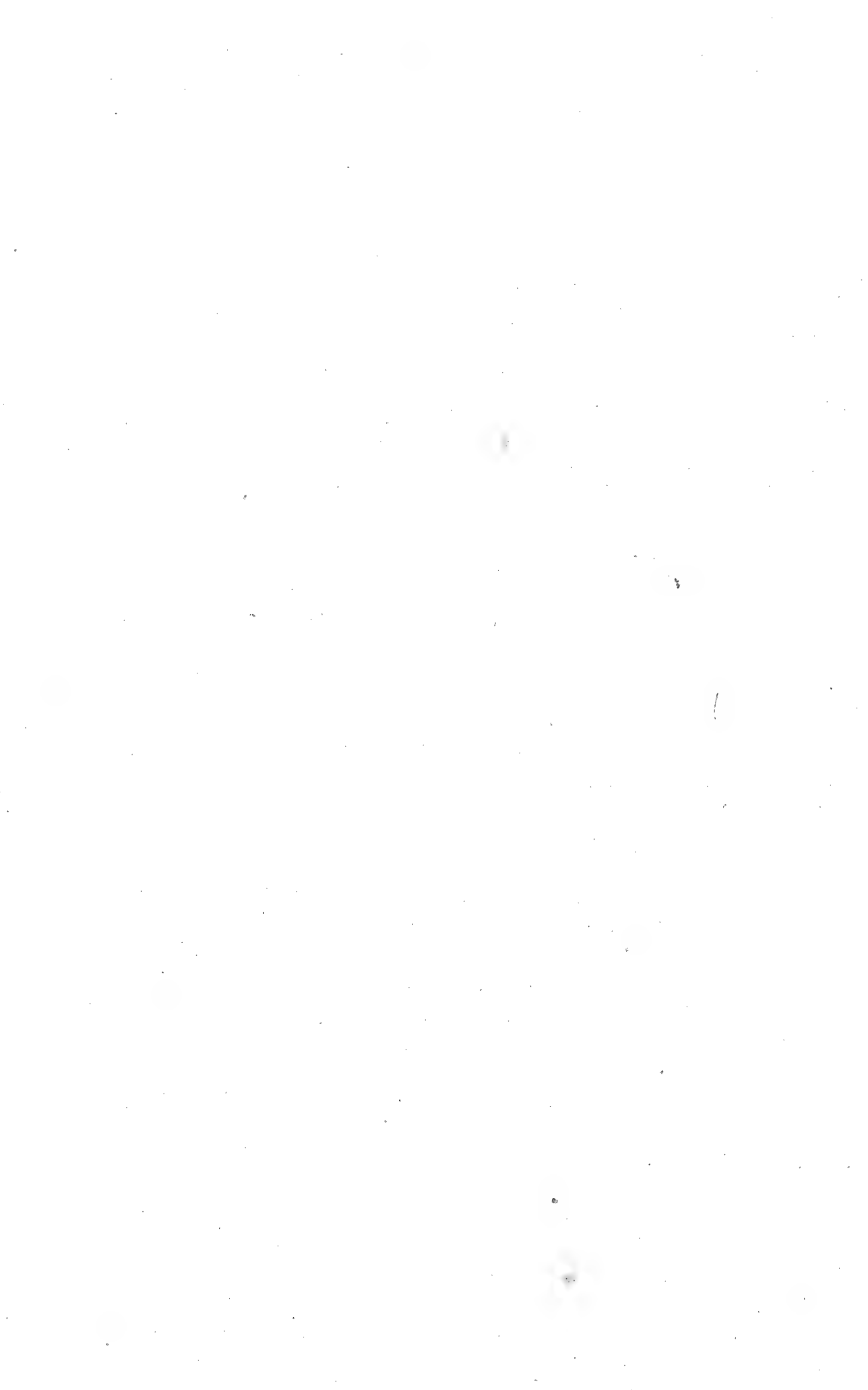
Contour interval, 100 feet.

MAP 85 A

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**LEGEND**

**PLEISTOCENE**

Vesicular dikes of basalt (Bauerman Ridge) and andesite (cutting Basic Complex)

**TERTIARY**

Park granite stocks

Cathedral batholith younger phase, calcic phase

Cathedral batholith older phase, alkaline biotite granite

**LOWER CRETACEOUS**

Agglomerate

**JURASSIC (?)**

Rommel batholith Eastern phase; highly calcic derivative of sheared granodiorite

Rommel batholith Western phase; sheared granodiorite

**LATE PALAEZOIC (?)**

Ashmole gabbro

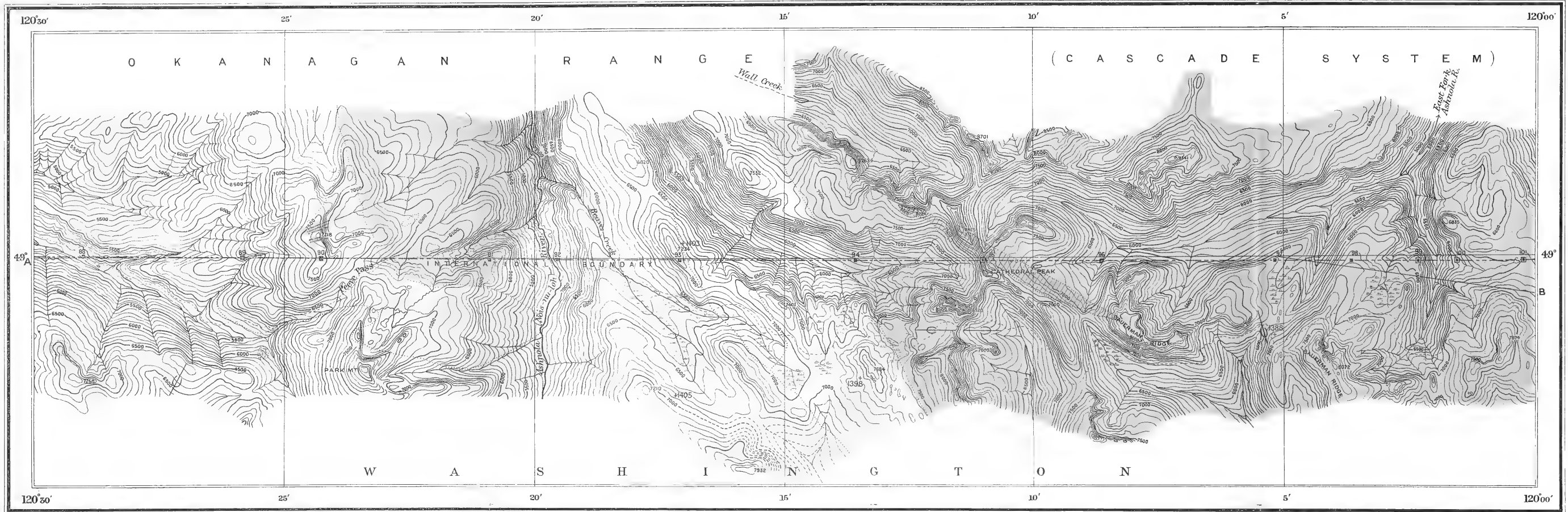
Basic complex

**Symbols**

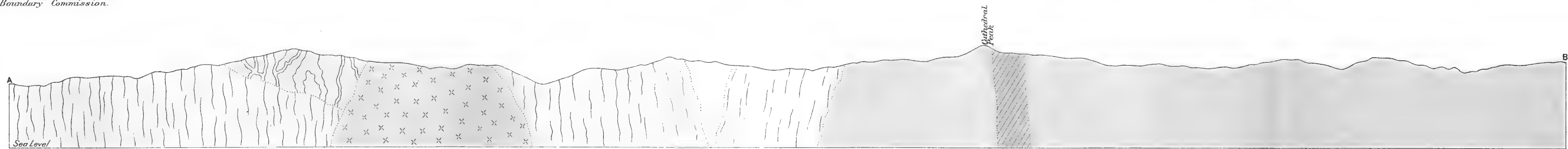
Geological boundary

Glacial striae

Note. Localities of chemically analyzed rocks, shown thus: + 1368



Topography from surveys made by the Boundary Commission.



Section along line A B  
**GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A.Daly.**  
 Scale:  $\frac{1}{62500} = 0.9864$  Statute Miles to 1 Inch

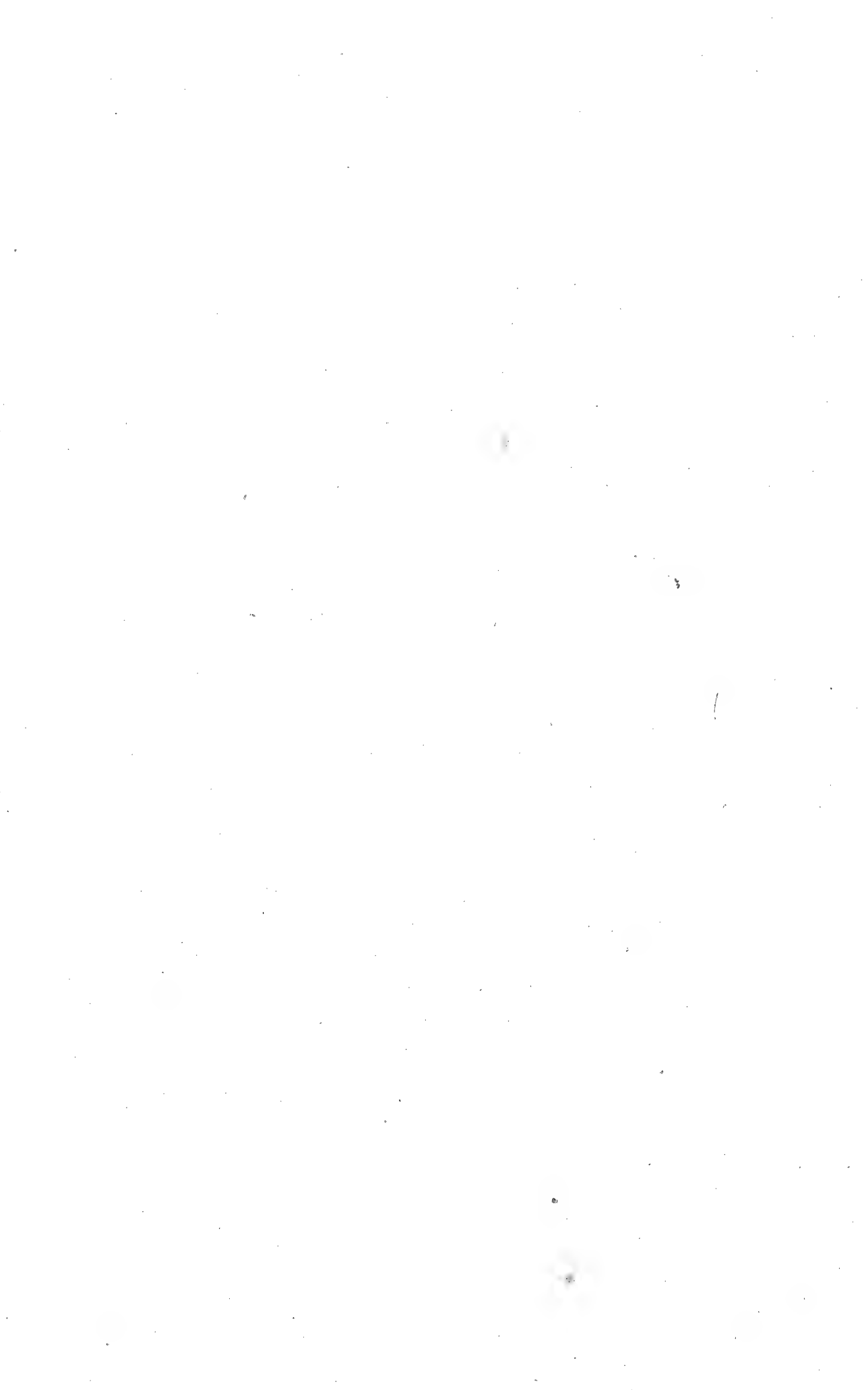


Contour interval, 100 feet.

MAP 86A  
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 to accompany Geological Survey Memoir N°38



SHEET 14--HOZOMEEN RANGE





# LEGEND

CRETACEOUS  
(SHASTA-CHICO)  
Pasayten series

L

Member L  
black argillite

K

Member K  
green and grey sandstone with  
interbeds of shale and conglomerate

J

Member J  
coarse conglomerate

BI

Members BI-1  
arkose and sandstone chiefly with  
conglomerate and shale

Py

Pasayten volcanic formation  
andesitic breccia

H2

Hozomeen series  
greenstone, cherty quartzite & limestone pods

## Intrusive

Syenite porphyry  
chanolath

Castle Mountain stock  
granodiorite

Lightning Creek stocks  
diorite

Rommel batholith  
western phase; sheared granodiorite

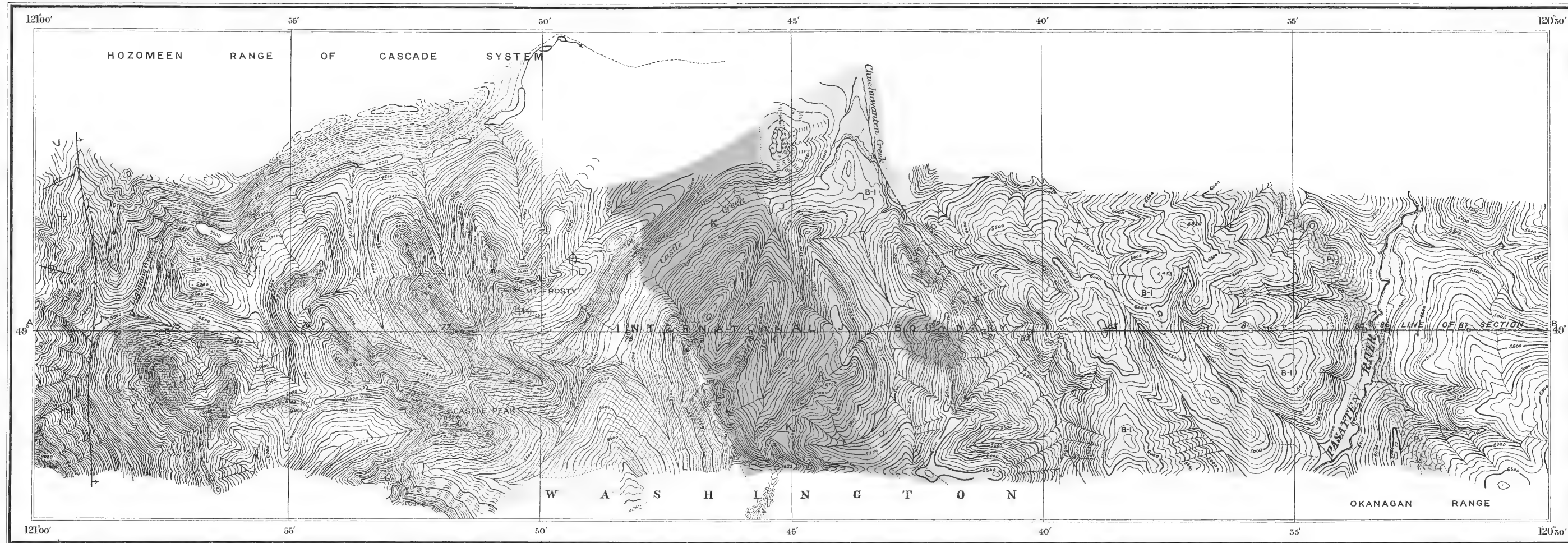
Symbols

Geological boundary

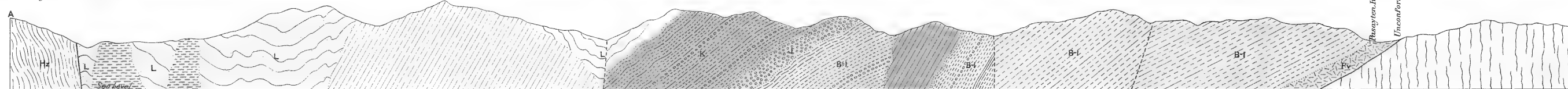
Fault

Glacial striae

Note. Structure of Hozomeen series, shown  
in section, merely diagrammatic.  
Localities of chemically analyzed  
rocks, shown thus, +1441



Topography from surveys made by  
the Boundary Commission.



## GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A. Daly.

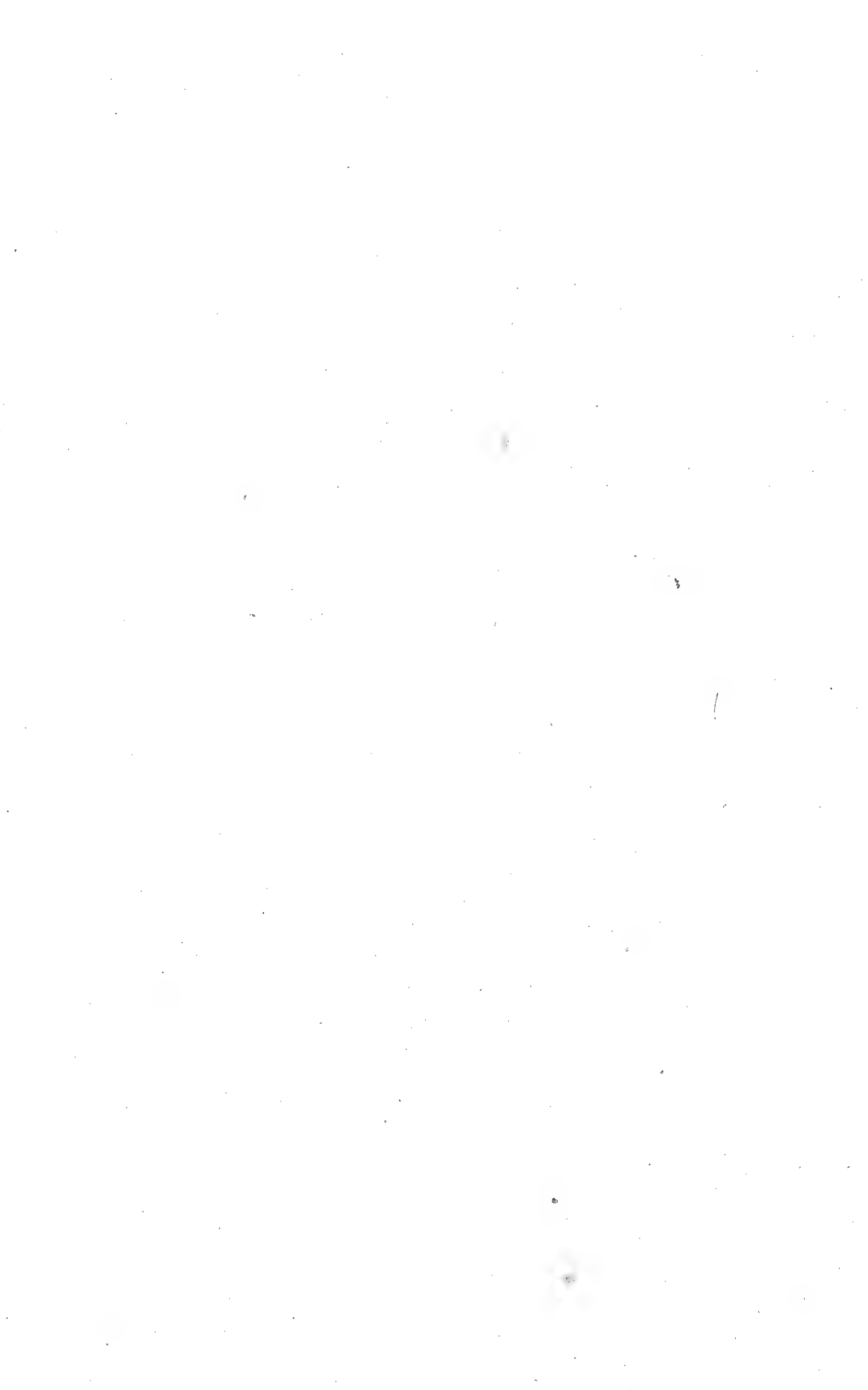
Scale: 62500 = 0.9864 Statute Miles to 1 Inch



Contour interval, 100 feet

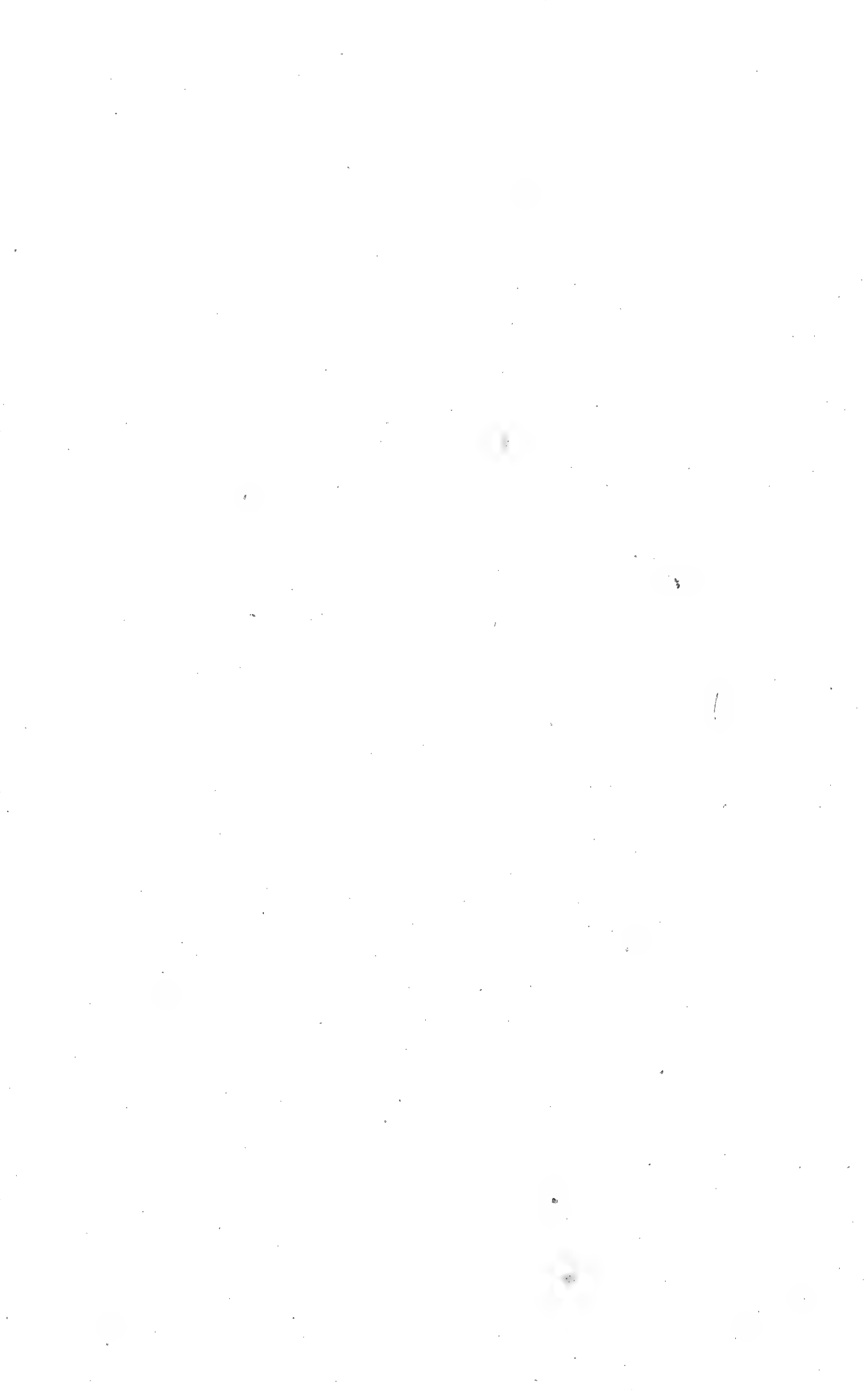
MAP 87A

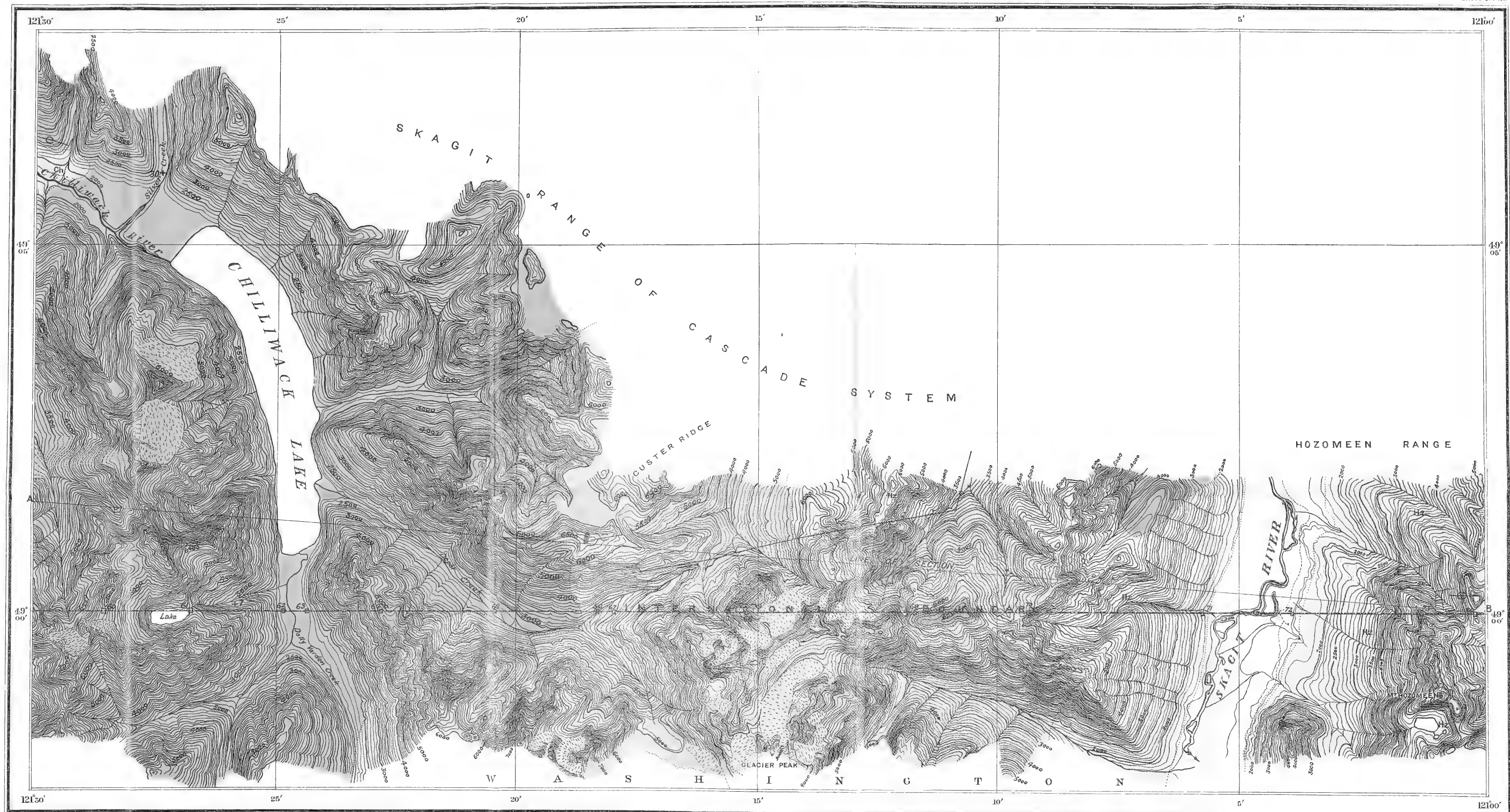
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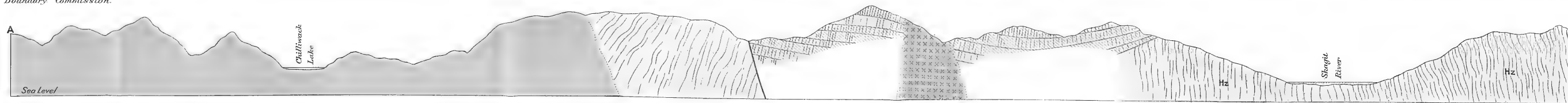
SHEET 15. SKAGIT RANGE

ERRATUM  
Boundary Monument 59 is 1.02 miles west of Mon. 60





Topography from surveys made by the Boundary Commission.



Section along line A B  
GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A.Daly.

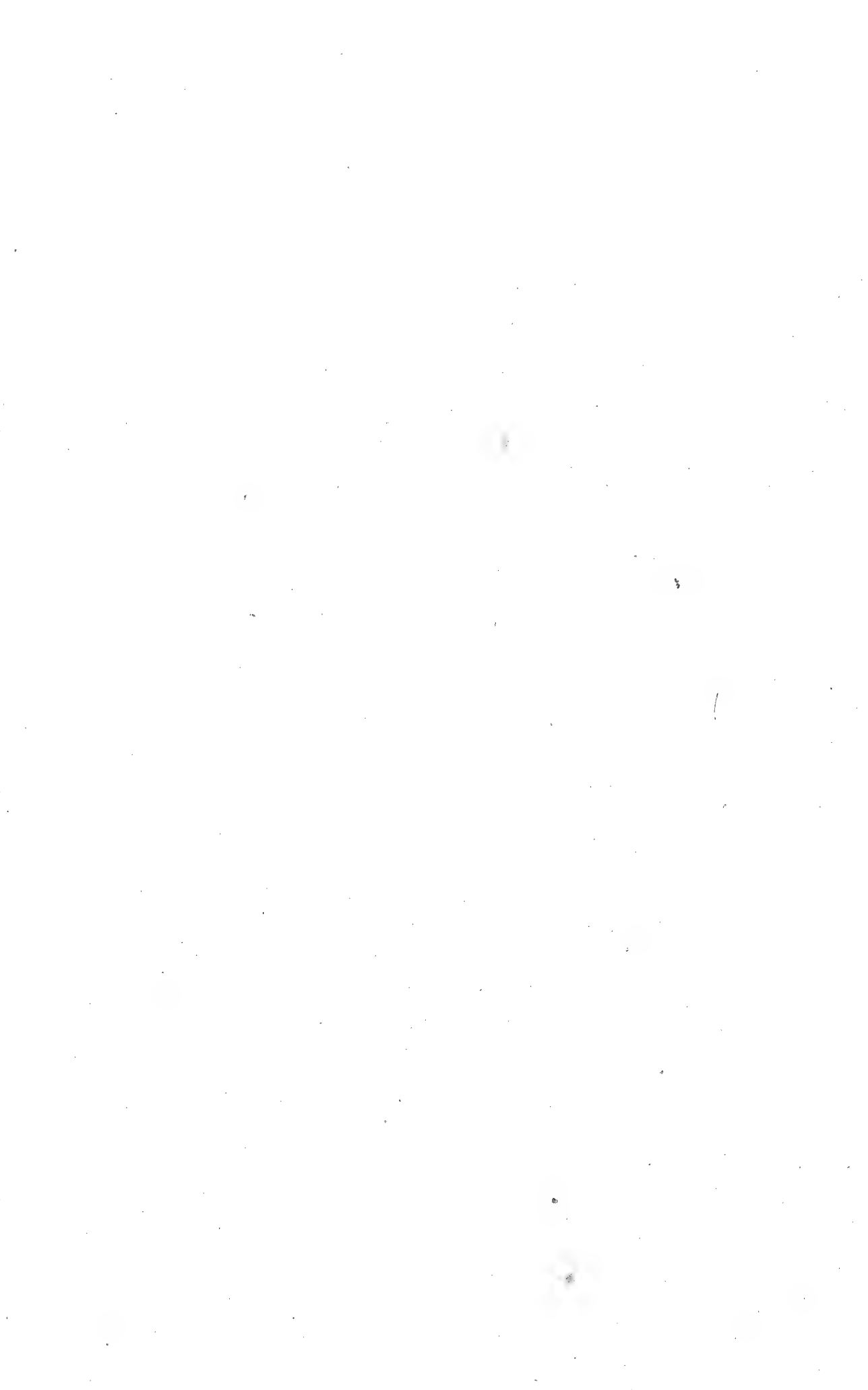
Scale: 62500-09864 Statute Miles to 1 inch

Miles 1 1/2 0 1 2 3 4

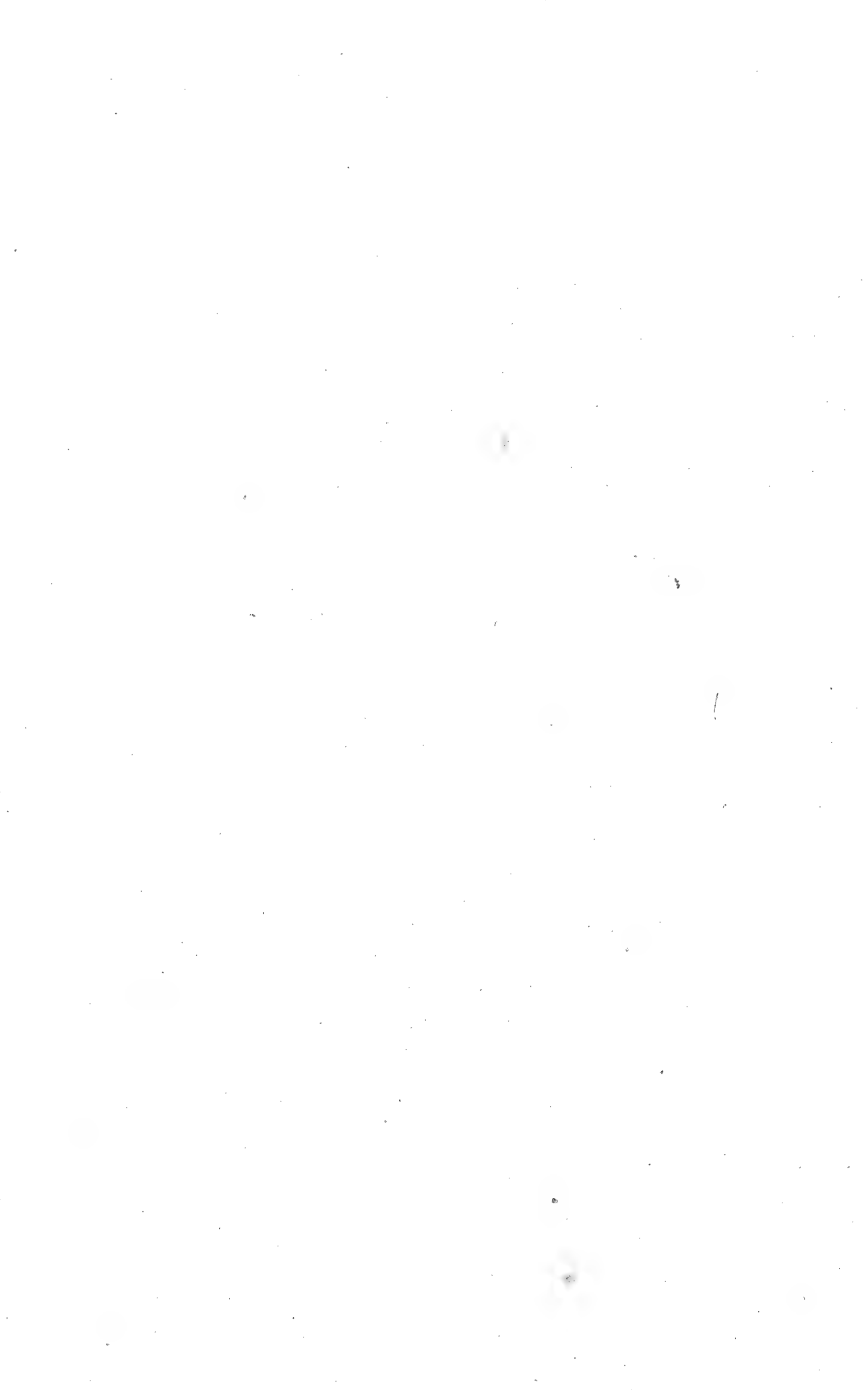
Contour interval, 100 feet

MAP 88A

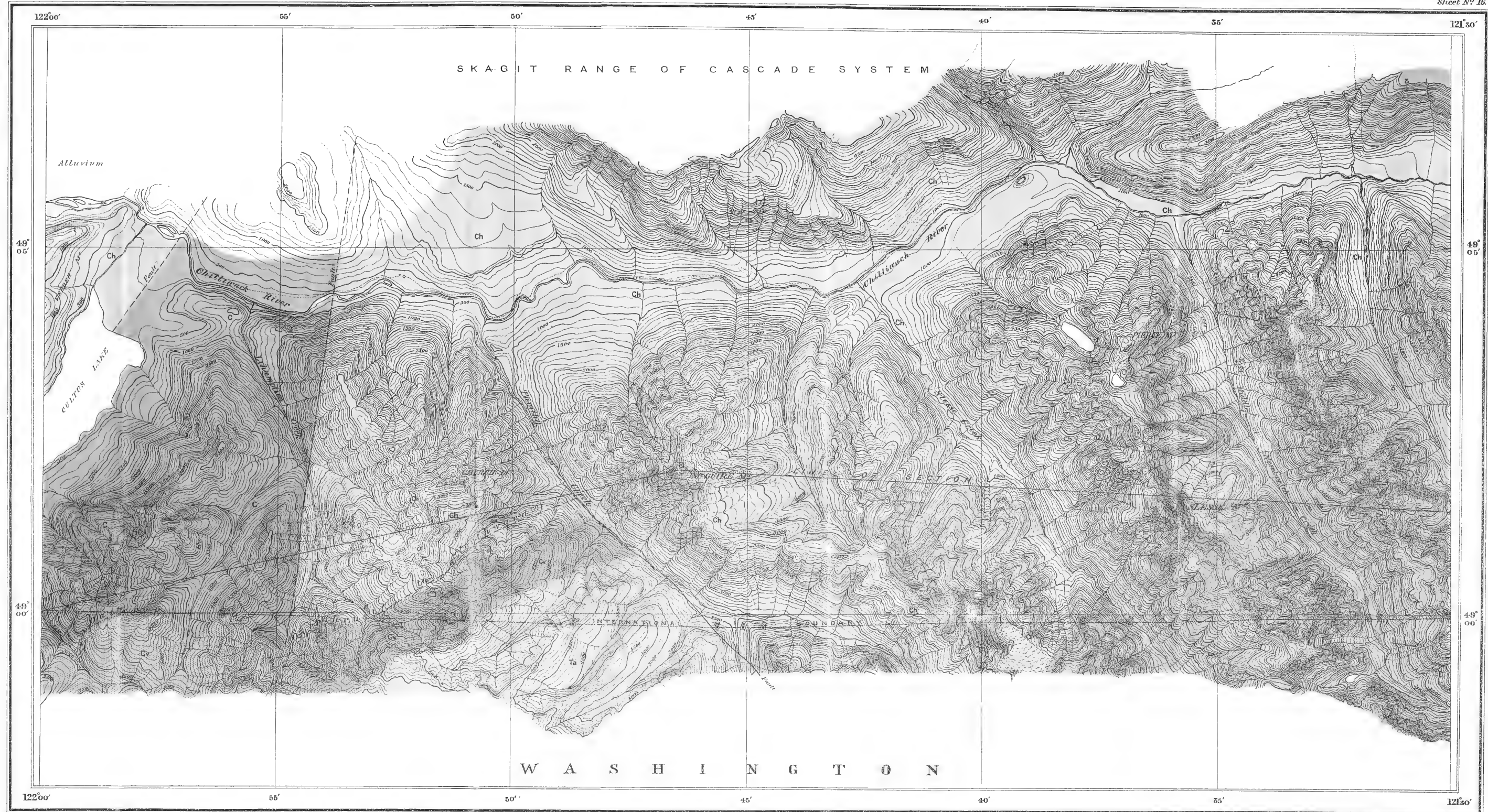
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SHEET 16.—CHILLIWACK RIVER





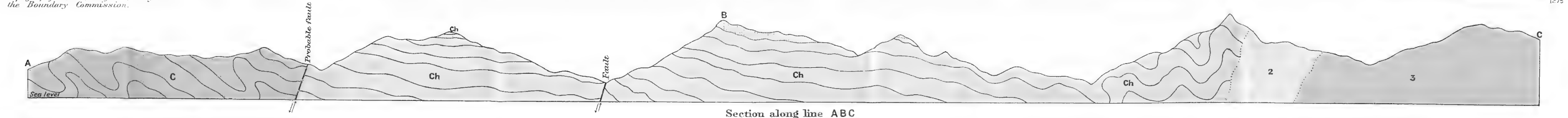


LEGEND

- CRETACEOUS**  
Ta  
Tamihi series  
conglomerate, green and black sandstones, and grey shales
- TRIASSIC**  
C  
Culius formation  
dark grey to black argillite, with interbeds of grit, sandstone and conglomerate
- CARBONIFEROUS**  
Cv  
Chilliwack volcanic formation  
chiefly flows of augite and hornblende andesite, with sub-beds
- CARBONIFEROUS (and older)**  
Ch  
Chilliwack series  
outcrops of fossiliferous limestone
- MIocene**  
Intrusive  
3  
Chilliwack batholith  
granodiorite, with granitic phases
- CARBONIFEROUS**  
2  
Slesse stock  
diorite
- CARBONIFEROUS**  
1  
Vedder greenstone
- Symbols**  
Geological boundary  
Fault

Note: Structure of Culius formation shown in section merely diagrammatic.  
Localities of chemically analyzed rocks, shown thus, + 54

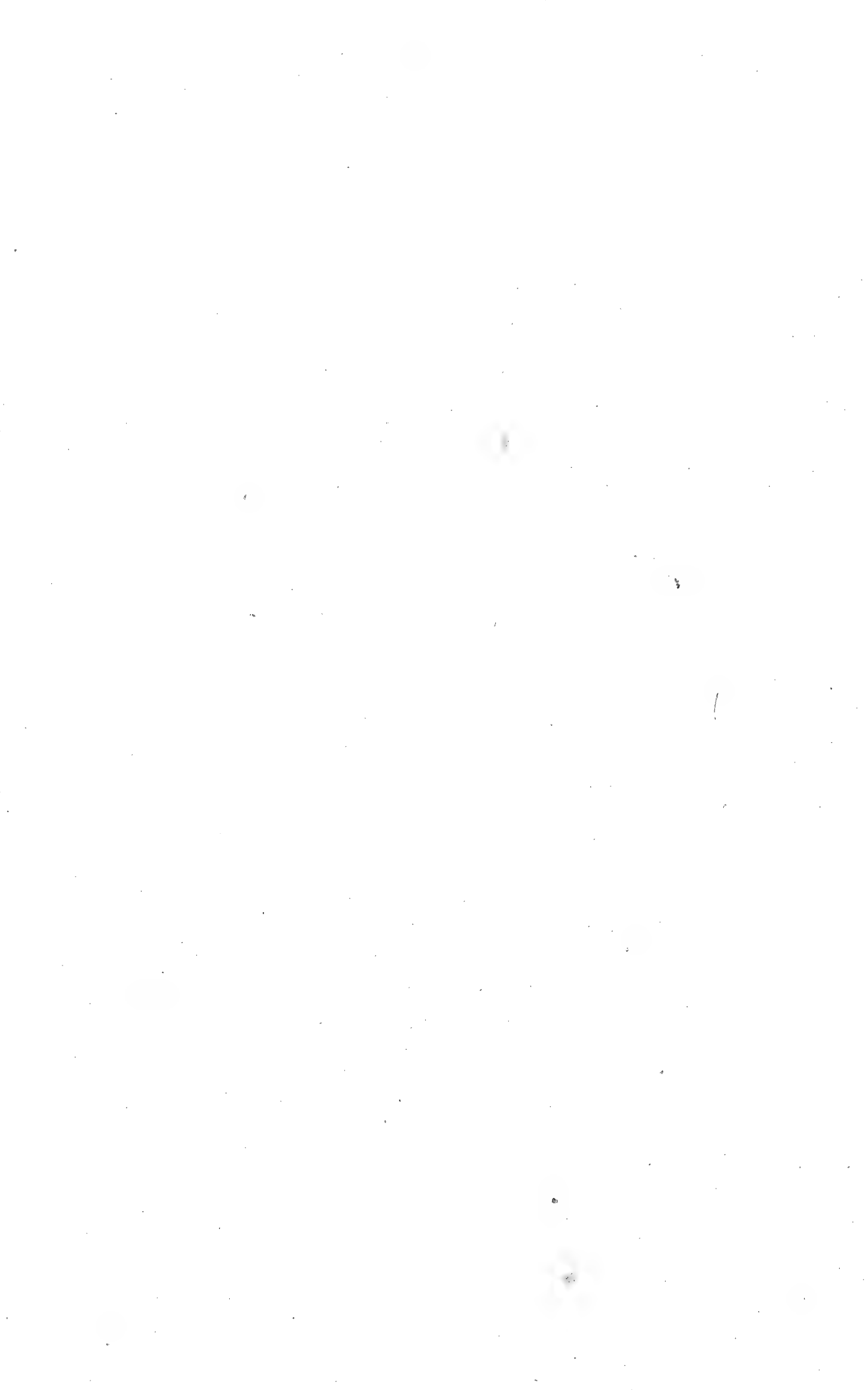
Topography from surveys made by the Boundary Commission.



Section along line ABC  
GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A. Daly.

Scale: 62500-09864 Statute Miles to 1 Inch  
Miles 1 2 3 4

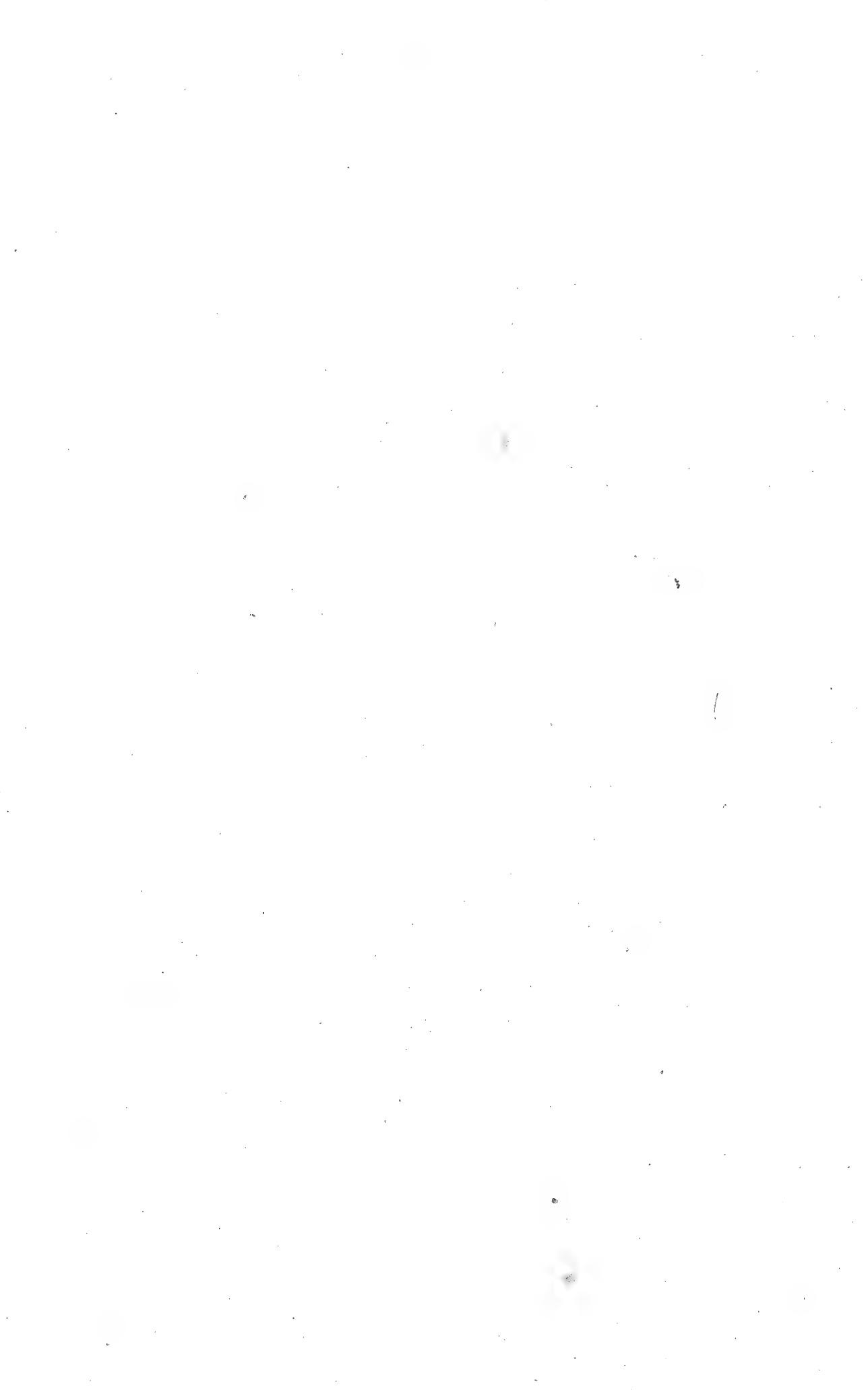
Contour interval, 100 feet

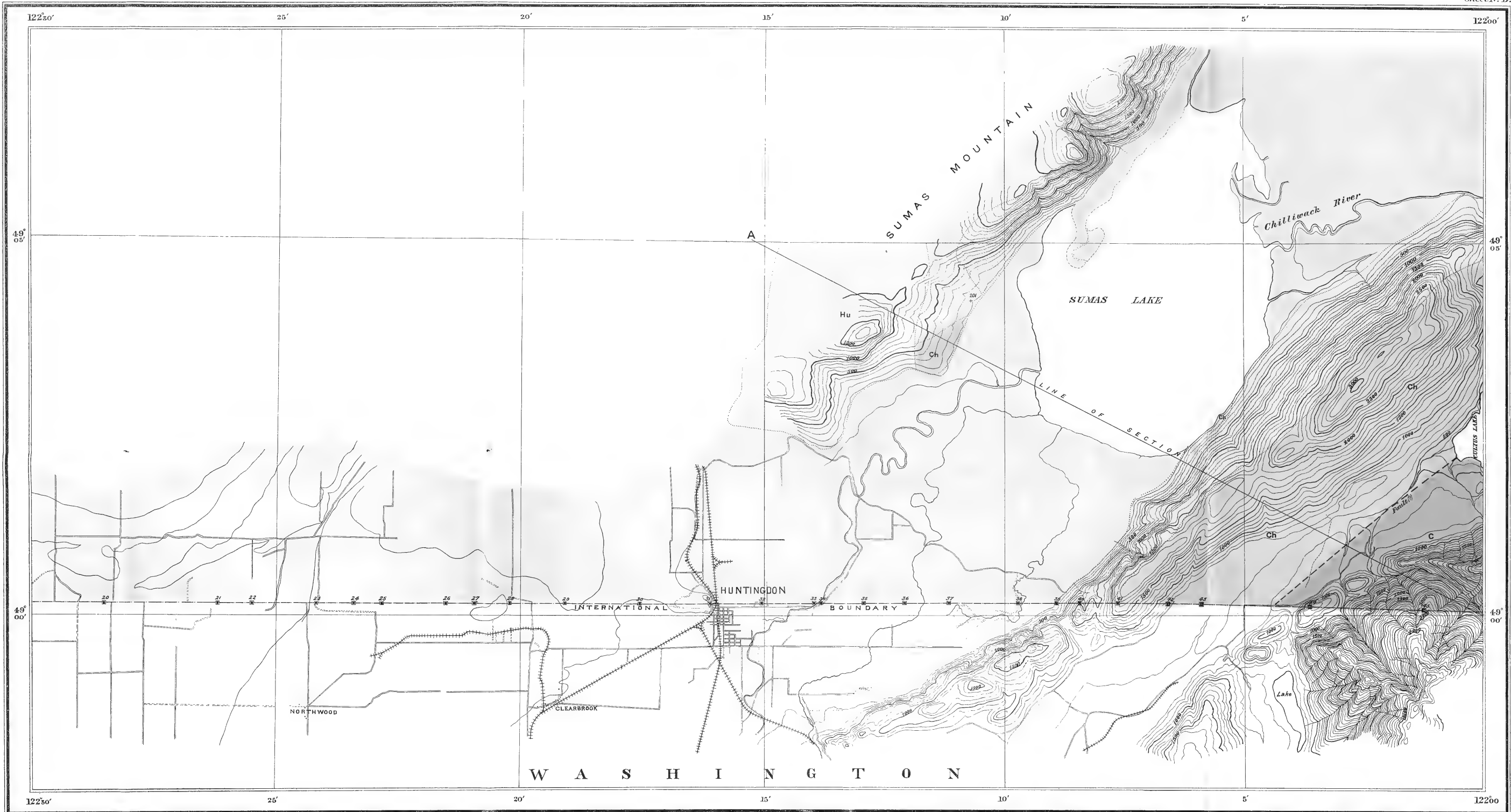


SHEET 17. SUMAS LAKE

ERRATUM

Boundary Monument 19 is 0.94 miles west of Mon. 20



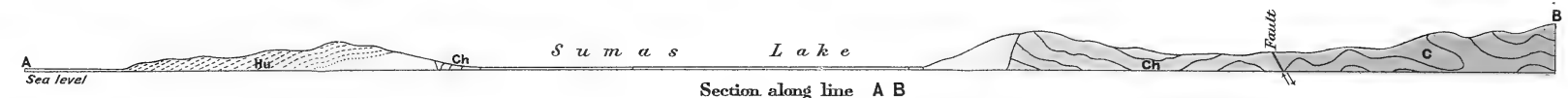


LEGEND

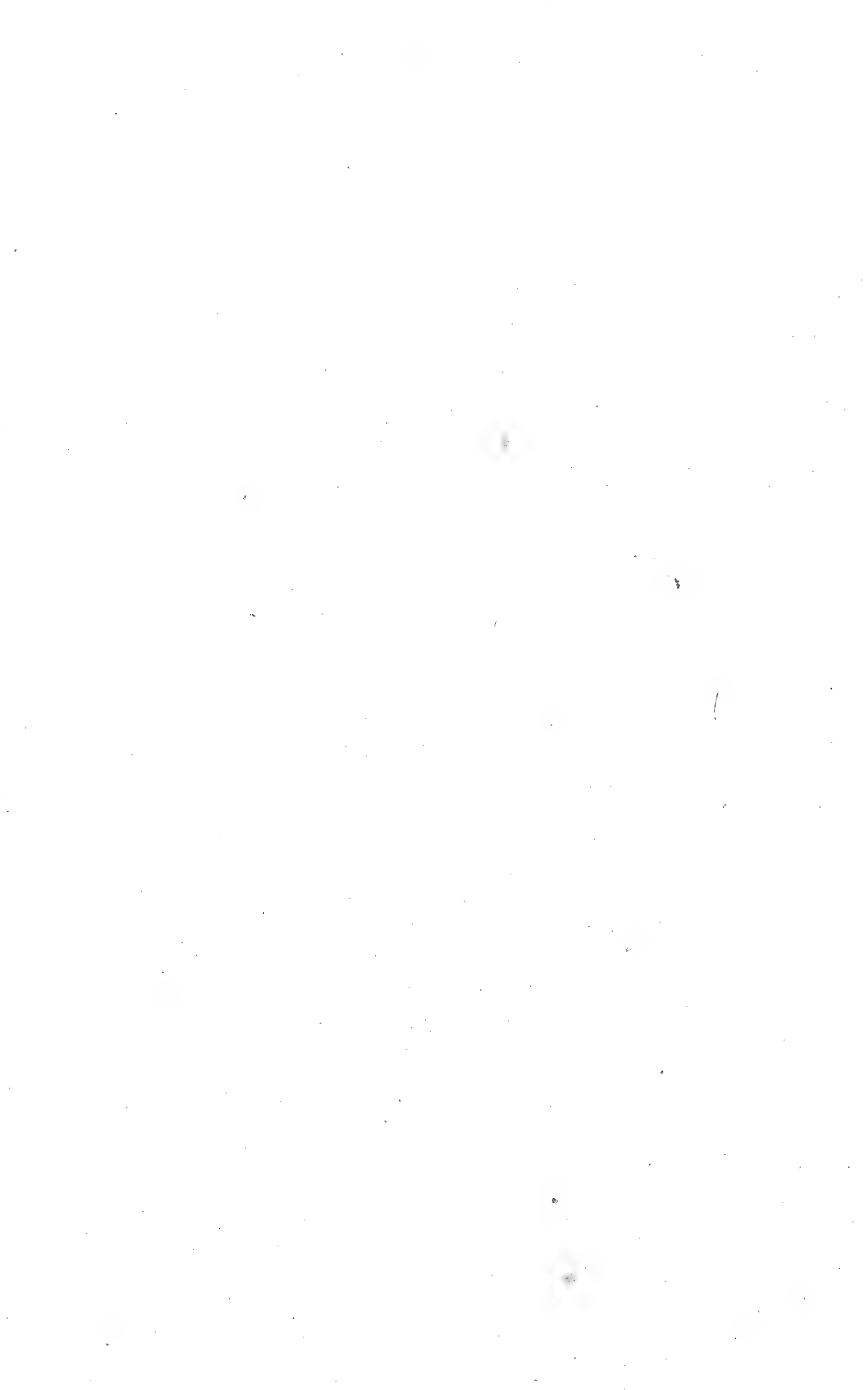
- Allevium and glacial drift (north of Boundary Line)
- Hu Huntingdon formation sandstone, conglomerate, shale and thin coal-beds
- C Culrus formation chiefly dark grey to black argillite, with sandstone and fine-grained conglomerate.
- Ch Chilliwack series argillite, sandstone and fine conglomerate (here unfossiliferous)
- Intrusive
- Sumas batholith granite
- Sumas diorite cut by granite (plutonic breccia)
- Vedder greenstone
- Symbols
- Geological boundary
- Fault (?)

Note. Localities of chemically analyzed rocks, shown thus, +201

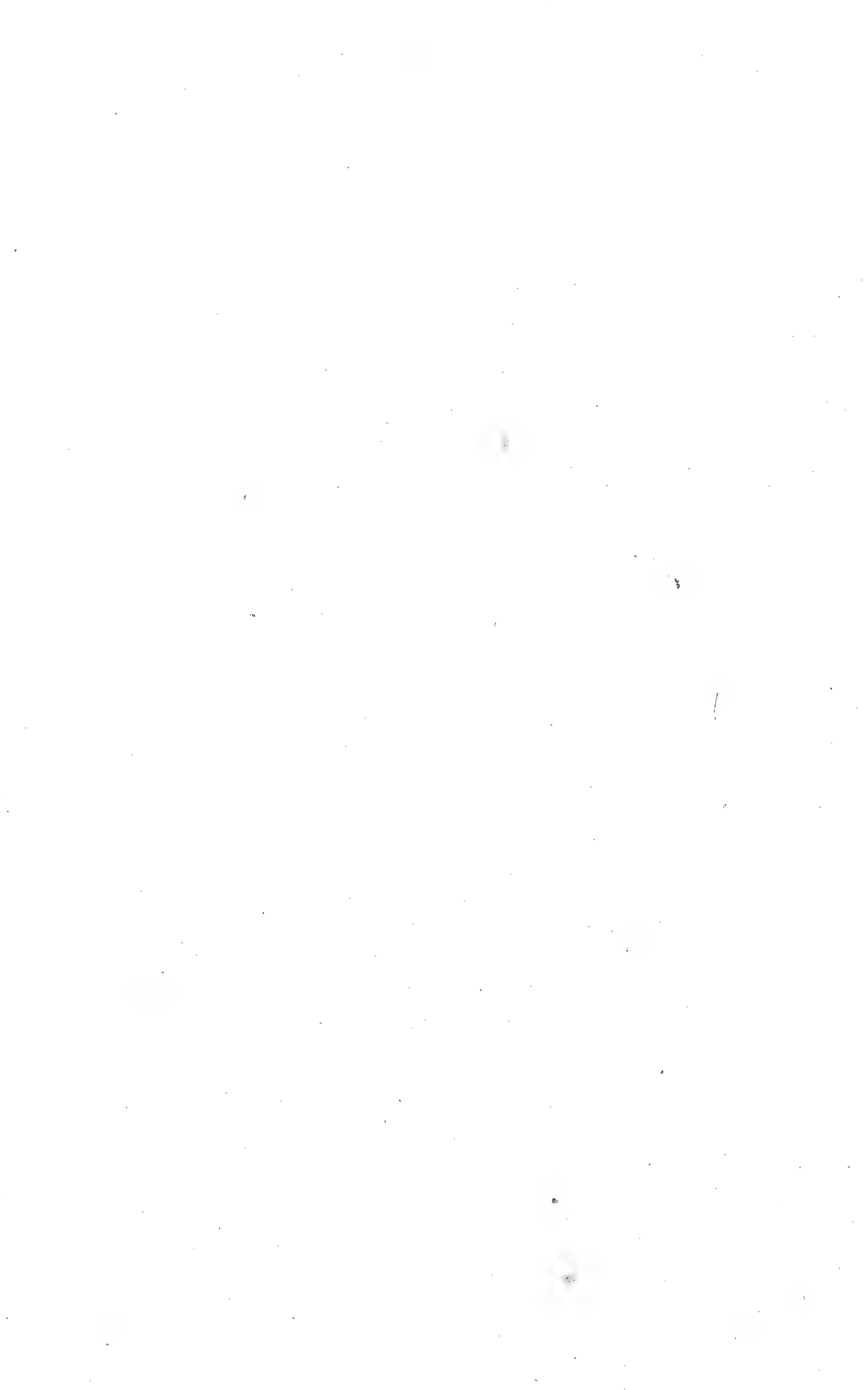
Topography from surveys made by the Boundary Commission.



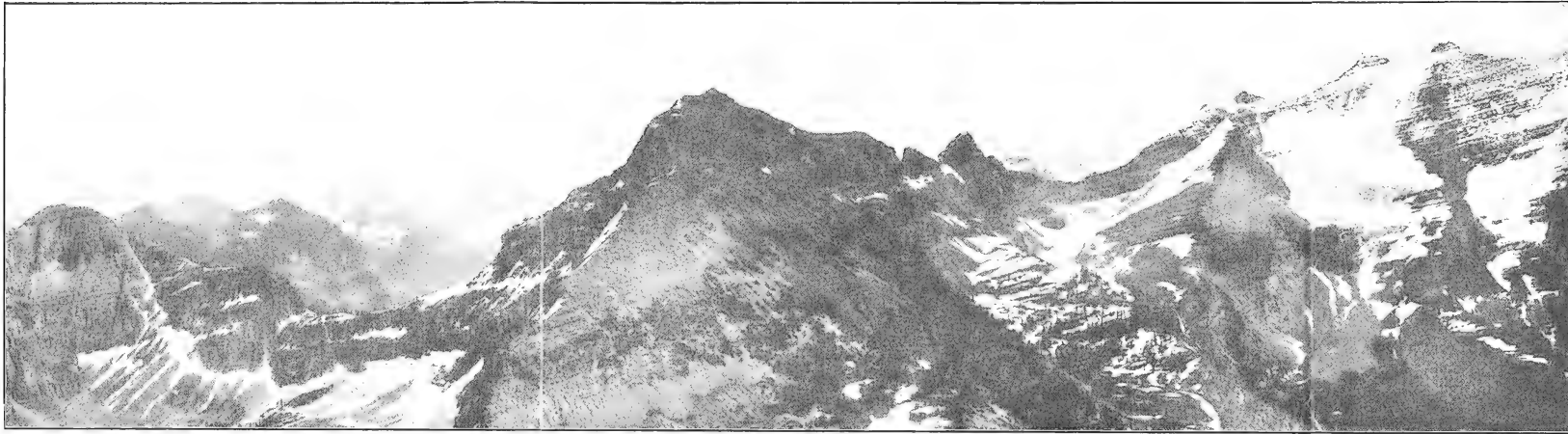
GEOLOGY OF THE FORTY-NINTH PARALLEL, By R.A.Daly.  
Scale: 62500 = 0.9864 Statute Miles to 1 Inch  
Miles 1 1/2 0 1 2 3 4  
Contour interval, 100 feet



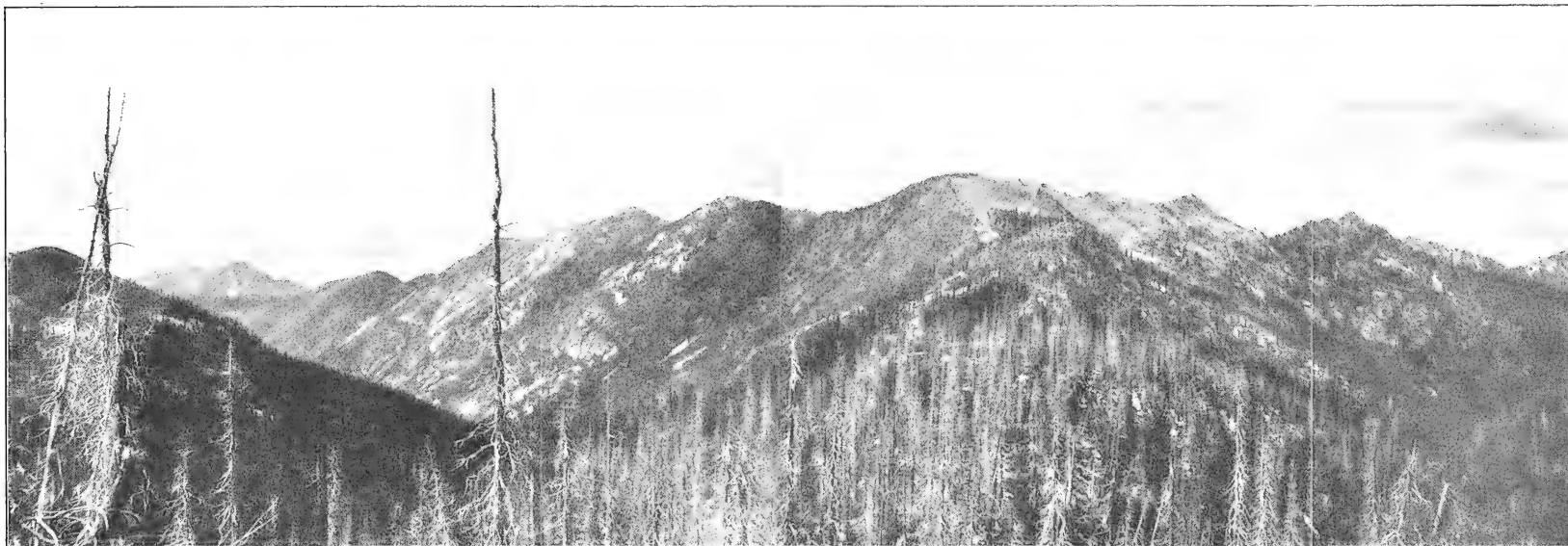








Typical view in the Clarke range. Looking eastward from head of Starvation Creek. The slope in middle of view is composed of the Siyeh formation capped by the Purcell Lava which is overlain by the Kinla formation.

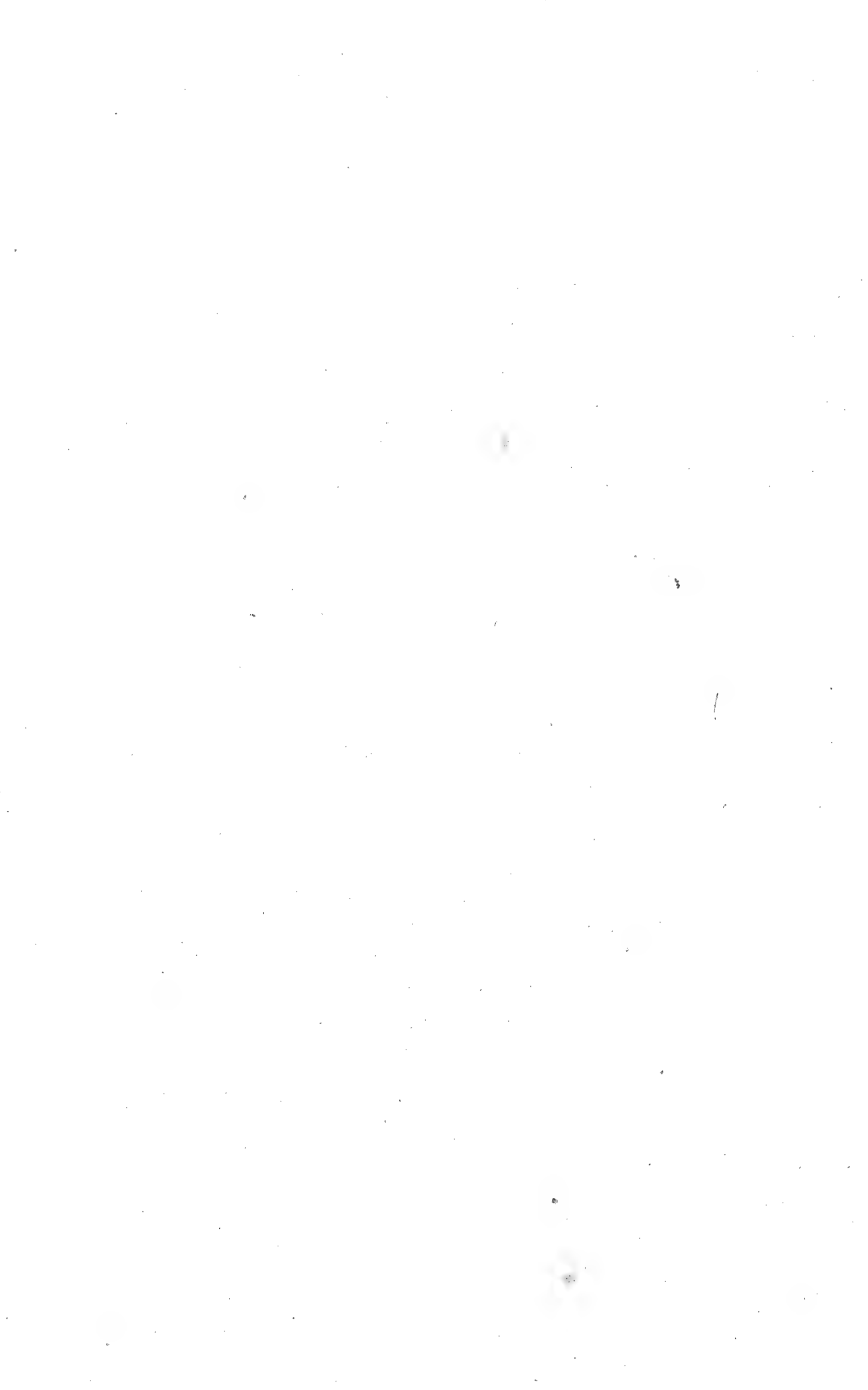


Summit of the Nelson range (Selkirk system). Looking north from a point a half-mile south of the Dewdney trail. Beehive Mountain distant, on the left.

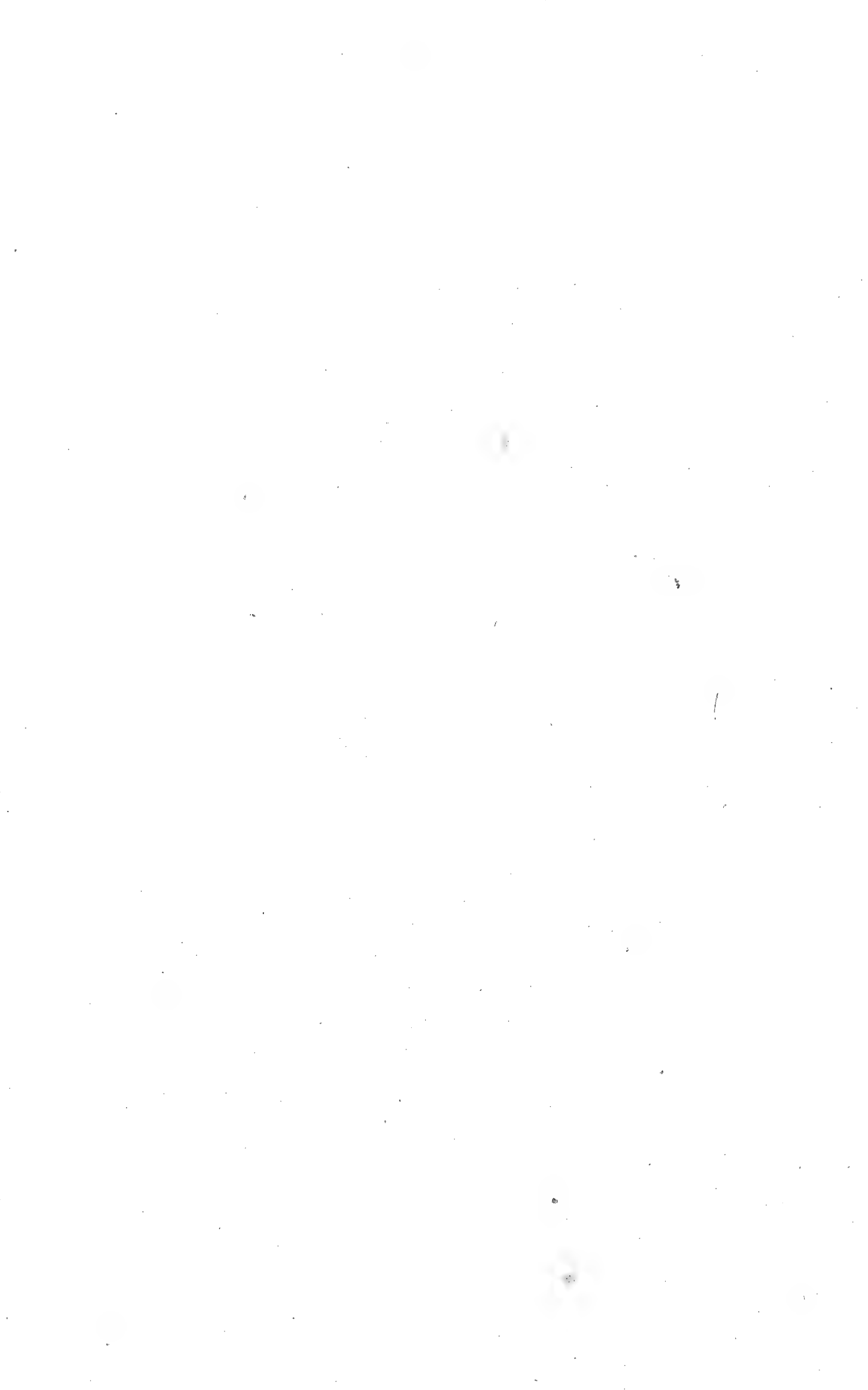


(In pocket.)

Nelson range, looking west from summit ridge north of Dewdney trail. Ridges of near distance composed of vertical quartzites, etc., of the Summit series.









Columbia River terrace and the Pend D'Oreille mountains (Selkirk system). Looking south west from near International Boundary.

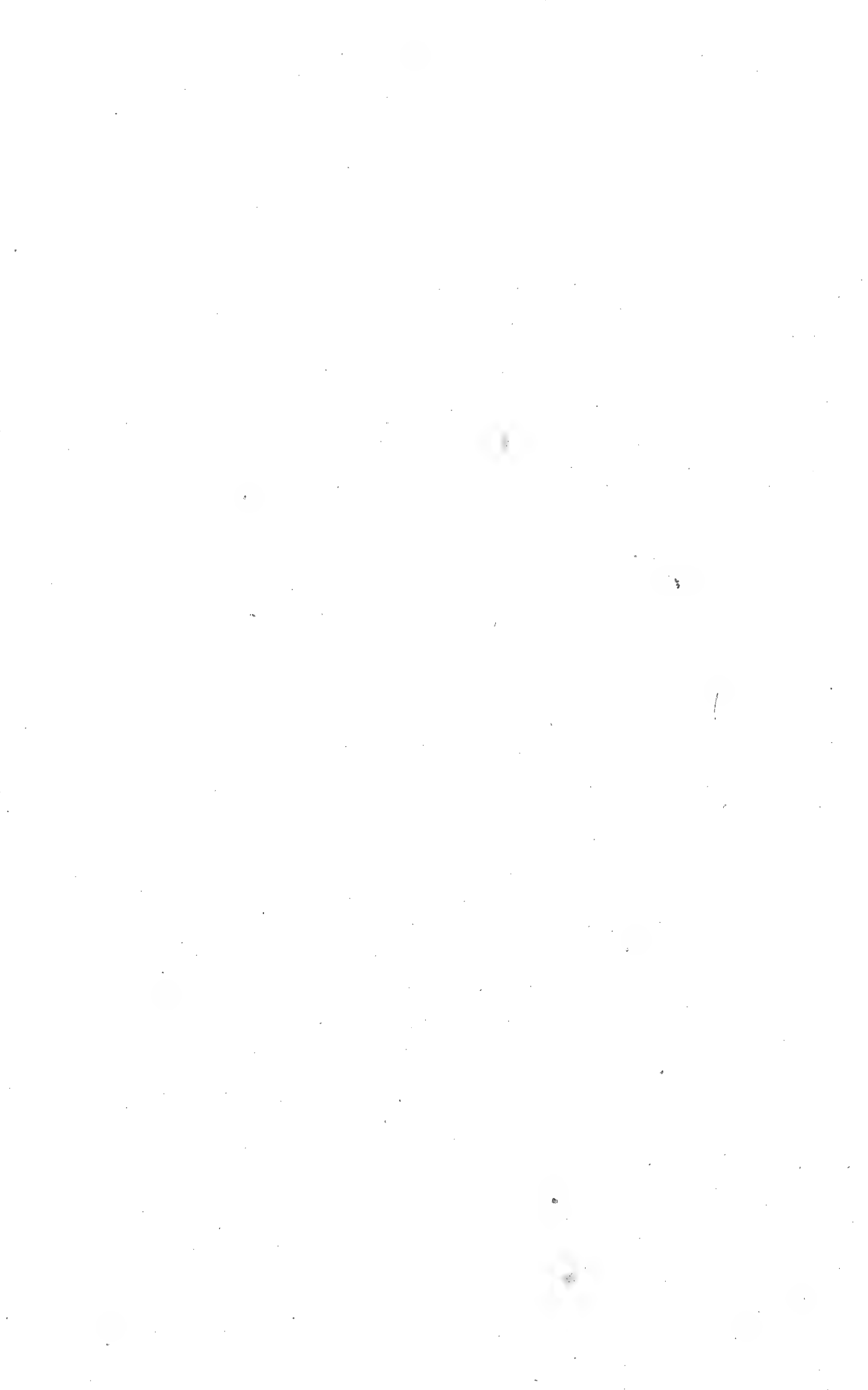


Typical view in the Midway Mountains. Looking northeastwardly across Kettle River near bridge six miles above Midway.



(In pocket.)

Typical view in the Skagit range. Looking east from divide between Middle and Slesse creeks. Chilliwack River valley on the left. View shows accordance of summit levels.



# ERRATA Appendix 6. Report of the Chief Astronomer 1910 Part III—maps

Sheet 17.—Boundary Monument  
" 15.—  
" 10.—

19 is 0.94 miles west of Mon. 20  
59 is 1.02 " " 60  
144 should be deleted  
145 should read 144  
146 " " 145  
147 " " 146  
148 " " 147  
149 " " 148  
150 " " 149  
151 " " 150  
152 " " 151  
153 " " 152  
154 " " 153  
155 " " 154  
156 " " 155  
157 " " 156  
158 " " 157  
159 " " 158  
160 " " 159  
161 " " 160  
162 " " 161  
163 " " 162  
164 " " 163  
165 " " 164

Sheet 9.—

165 is a few yards east of the railway track near Laurier.  
207 is 2.72 miles west of Mon. 208  
207 should read 208  
208 " " 209  
209 " " 210  
210 " " 211  
211 " " 212  
212 " " 213  
213 " " 214  
214 " " 215  
215 " " 216  
216 " " 217  
217 is 0.02 miles east of Mon. 217  
217 should read 219  
218 " " 220  
219 " " 221  
220 " " 222  
221 " " 223  
222 " " 224  
223 " " 225  
224 " " 226  
225 " " 227

Sheet 5.—

165 is a few yards east of the railway track near Laurier.  
207 is 2.72 miles west of Mon. 208  
207 should read 208  
208 " " 209  
209 " " 210  
210 " " 211  
211 " " 212  
212 " " 213  
213 " " 214  
214 " " 215  
215 " " 216  
216 " " 217  
217 is 0.02 miles east of Mon. 217  
217 should read 219  
218 " " 220  
219 " " 221  
220 " " 222  
221 " " 223  
222 " " 224  
223 " " 225  
224 " " 226  
225 " " 227

Sheet 4.—

165 is a few yards east of the railway track near Laurier.  
207 is 2.72 miles west of Mon. 208  
207 should read 208  
208 " " 209  
209 " " 210  
210 " " 211  
211 " " 212  
212 " " 213  
213 " " 214  
214 " " 215  
215 " " 216  
216 " " 217  
217 is 0.02 miles east of Mon. 217  
217 should read 219  
218 " " 220  
219 " " 221  
220 " " 222  
221 " " 223  
222 " " 224  
223 " " 225  
224 " " 226  
225 " " 227

Sheet 4.—Boundary Monument  
(continued)

226 should read 228  
227 " " 229  
228 " " 230  
229 " " 231  
230 " " 232  
231 " " 233  
232 " " 234  
233 " " 235  
234 " " 236  
235 " " 237  
236 " " 238  
237 " " 239  
238 " " 240  
239 " " 241  
240 " " 242  
241 " " 243  
242 is 0.22 miles west of Mon. 245  
242 should read 245  
243 " " 246  
244 " " 247  
245 " " 248  
246 " " 249  
247 " " 250  
248 " " 251  
252 is 1.35 miles east of Mon. 251  
249 should read 253  
250 " " 254  
251 " " 255  
252 " " 256  
257 is 2.59 miles east of Mon. 256  
253 should read 258  
259 is 2.14 miles east of Mon. 258  
254 should read 260  
255 " " 261  
256 " " 262  
257 " " 263  
258 " " 264  
259 " " 265  
260 " " 266  
261 " " 267  
262 " " 268  
269 is 0.94 miles west of Mon. 270  
263 should read 270  
264 " " 271  
265 " " 272  
273 is 1.16 miles east of Mon. 272

Sheet 3.—

226 should read 228  
227 " " 229  
228 " " 230  
229 " " 231  
230 " " 232  
231 " " 233  
232 " " 234  
233 " " 235  
234 " " 236  
235 " " 237  
236 " " 238  
237 " " 239  
238 " " 240  
239 " " 241  
240 " " 242  
241 " " 243  
242 is 0.22 miles west of Mon. 245  
242 should read 245  
243 " " 246  
244 " " 247  
245 " " 248  
246 " " 249  
247 " " 250  
248 " " 251  
252 is 1.35 miles east of Mon. 251  
249 should read 253  
250 " " 254  
251 " " 255  
252 " " 256  
257 is 2.59 miles east of Mon. 256  
253 should read 258  
259 is 2.14 miles east of Mon. 258  
254 should read 260  
255 " " 261  
256 " " 262  
257 " " 263  
258 " " 264  
259 " " 265  
260 " " 266  
261 " " 267  
262 " " 268  
269 is 0.94 miles west of Mon. 270  
263 should read 270  
264 " " 271  
265 " " 272  
273 is 1.16 miles east of Mon. 272

Sheet 2.—

226 should read 228  
227 " " 229  
228 " " 230  
229 " " 231  
230 " " 232  
231 " " 233  
232 " " 234  
233 " " 235  
234 " " 236  
235 " " 237  
236 " " 238  
237 " " 239  
238 " " 240  
239 " " 241  
240 " " 242  
241 " " 243  
242 is 0.22 miles west of Mon. 245  
242 should read 245  
243 " " 246  
244 " " 247  
245 " " 248  
246 " " 249  
247 " " 250  
248 " " 251  
252 is 1.35 miles east of Mon. 251  
249 should read 253  
250 " " 254  
251 " " 255  
252 " " 256  
257 is 2.59 miles east of Mon. 256  
253 should read 258  
259 is 2.14 miles east of Mon. 258  
254 should read 260  
255 " " 261  
256 " " 262  
257 " " 263  
258 " " 264  
259 " " 265  
260 " " 266  
261 " " 267  
262 " " 268  
269 is 0.94 miles west of Mon. 270  
263 should read 270  
264 " " 271  
265 " " 272  
273 is 1.16 miles east of Mon. 272

Sheet 1.—

226 should read 228  
227 " " 229  
228 " " 230  
229 " " 231  
230 " " 232  
231 " " 233  
232 " " 234  
233 " " 235  
234 " " 236  
235 " " 237  
236 " " 238  
237 " " 239  
238 " " 240  
239 " " 241  
240 " " 242  
241 " " 243  
242 is 0.22 miles west of Mon. 245  
242 should read 245  
243 " " 246  
244 " " 247  
245 " " 248  
246 " " 249  
247 " " 250  
248 " " 251  
252 is 1.35 miles east of Mon. 251  
249 should read 253  
250 " " 254  
251 " " 255  
252 " " 256  
257 is 2.59 miles east of Mon. 256  
253 should read 258  
259 is 2.14 miles east of Mon. 258  
254 should read 260  
255 " " 261  
256 " " 262  
257 " " 263  
258 " " 264  
259 " " 265  
260 " " 266  
261 " " 267  
262 " " 268  
269 is 0.94 miles west of Mon. 270  
263 should read 270  
264 " " 271  
265 " " 272  
273 is 1.16 miles east of Mon. 272







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